FIFTY CENTS

OWNER'S MANUAL

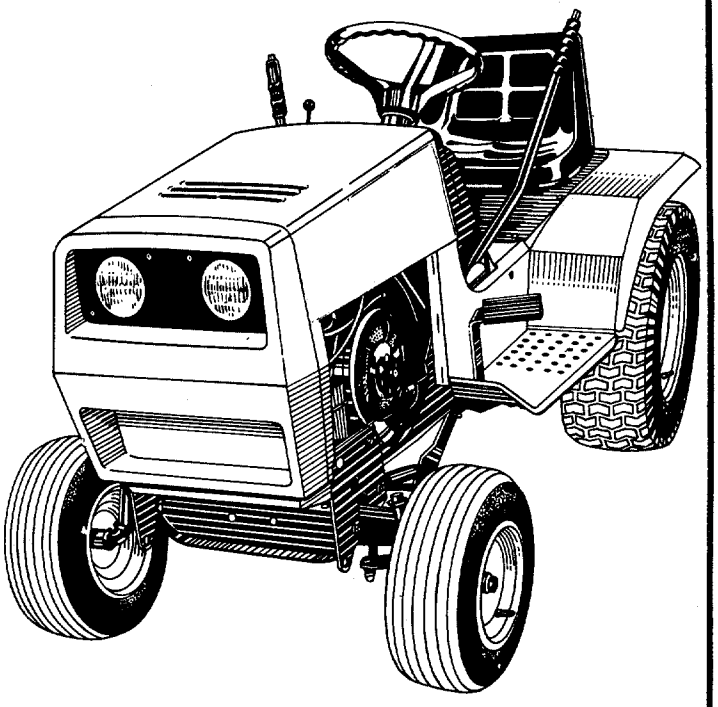
- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

Model Nos.
148-910A
148-916A

Important:

Read Safety Rules and Instructions Carefully

11 & 16 H.P. GARDEN TRACTOR



PRINTED IN U.S.A.

FORM NO. 770-7477

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges under this warranty must be paid by the purchaser unless return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING TO PURCHASERS
OF INTERNAL COMBUSTION ENGINE EQUIPPED
MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

➡IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
3. Do not carry passengers.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operator position.
8. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
10. Disengage power to attachment(s) when transporting or not in use.
11. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. Handle gasoline with care—it is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
22. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
23. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
24. Do not change the engine governor settings or overspeed the engine.
25. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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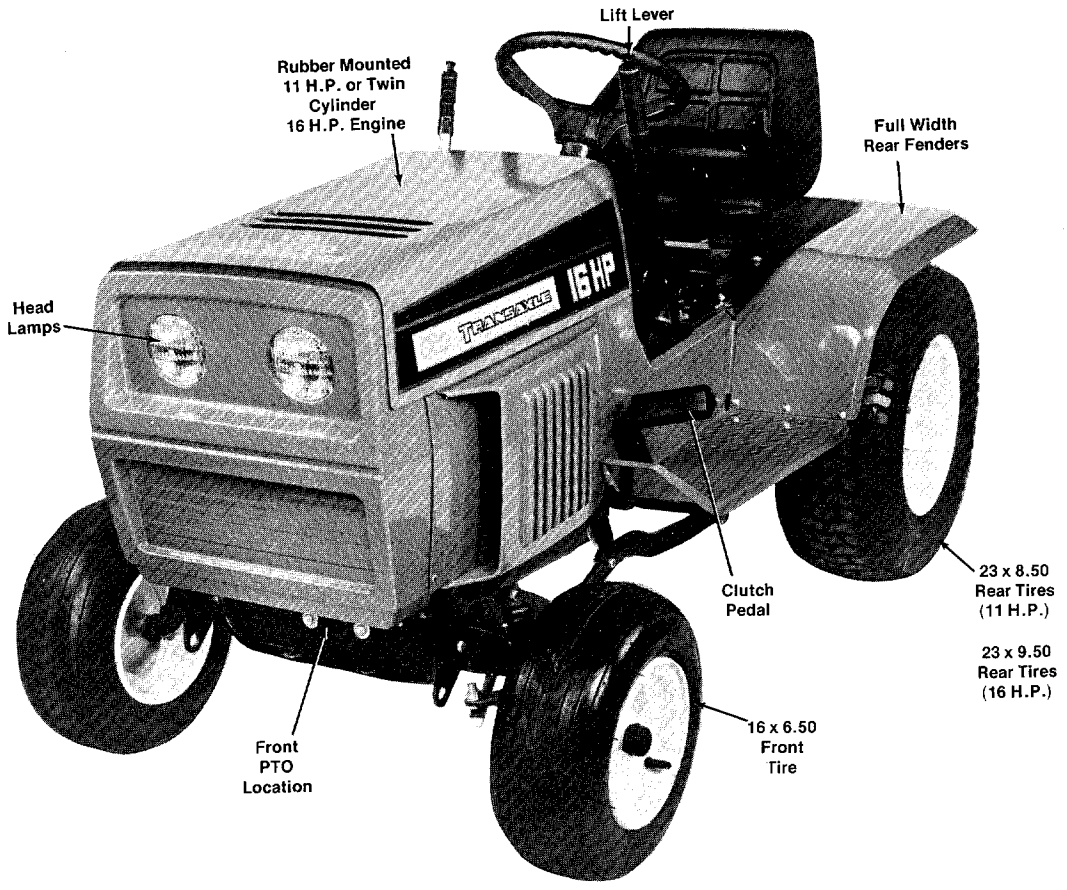

Lift Lever
Rubber Mounted 11 H.P. or Twin Cylinder 16 H.P. Engine
Full Width Rear Fenders
Head Lamps
TRANSAXLE
16 HP
Clutch Pedal
23 x 8.50 Rear Tires (11 H.P.)
23 x 9.50 Rear Tires (16 H.P.)
16 x 6.50 Front Tire
Front PTO Location

ACCESSORIES

Spring tooth cultivator—198-922. Requires three point hitch kit 198-951.

54 inch snow blade—198-954*

48 inch snow thrower—198-955*. Requires power take off kit 198-952.

Rotary tiller—198-956. Requires three point hitch kit 198-951 and power take off kit 198-952.*

*No special mounting kit required if you have a 42" or 50" mowing deck. If you do not have either deck you must have a 198-953 linkage kit to attach your 48" snow thrower, 54" snow blade and rotary tiller.

42 inch mowing deck—198-957

50 inch mowing deck—198-958

Three point hitch kit—198-951. Necessary when using any of the rear mounted attachments such as the 12" mold board plow, spring tooth cultivator, tandem disc harrow or rotary tiller.

Power take off kit—198-952. Necessary when using the 48" snow thrower or the rotary tiller.

12 inch mold board plow—198-920. Requires three point hitch kit—198-951.

Tandem disc harrow—198-921. Requires three point hitch kit 198-951.

ASSEMBLY

TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

BATTERY

The following information must be read before activating and installing the battery in the tractor.

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.

C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

A. Keep sparks, flame, cigarettes away.

B. Hydrogen gas is generated during charging and discharging.

C. Ventilate when charging or using in enclosed space.

D. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.

E. Always shield eyes, protect skin and clothing when working near batteries.

A. ACTIVATING THE BATTERY

1. Place battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.

2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to be 3/8" above the top of the separators or to the split ring.

3. Allow battery to set for 20 minutes to ½ hour. Add additional acid if necessary to bring it up to the proper level.

4. Replace the vent caps.

5. The battery can now be charged after the 20 minute setting period. Battery must be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265-1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.

CAUTION

After battery has been in service, add only approved water. DO NOT ADD ACID.

B. TO INSTALL BATTERY

1. Place the battery in the battery case with the terminals to the rear. (See figure 1.)

2. Attach the positive cable (from the starter solenoid) and the small wire (from the circuit breaker) to the positive battery terminal (+) with the ¼" bolt, lockwasher and nut.

3. Attach the negative cable (grounded) to the negative battery terminal (-) with the ¼" bolt, lockwasher and nut.

4. Hook the hold down rods through the holes in the battery case and place the hold down over the manifold of the battery and the two hold down rods. (See figure 2.)

5. Secure the hold down with the two wing nuts. Hand tighten only.

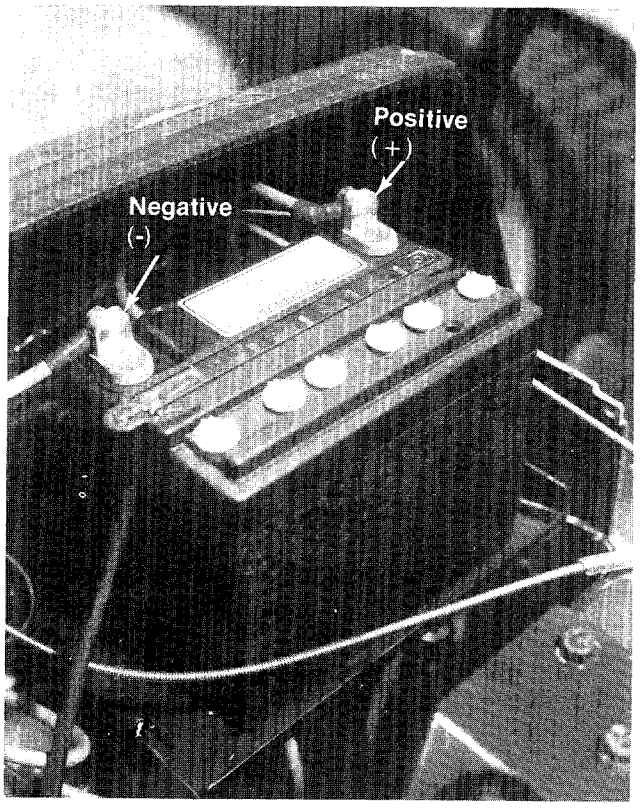


FIGURE 1.

6. Cut the rubber tubing from the battery manifold about 8 inches long.

7. Place the cut end into the plastic drain tube.

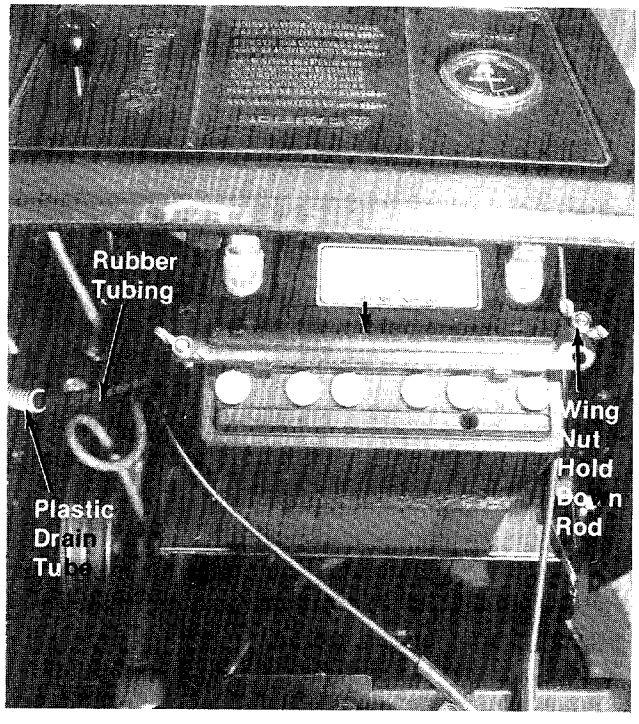


FIGURE 2.

NOTE

The vented battery allows any gases or liquid from the battery to be carried to the rear of the mower through the drain tube.

C. OIL

Check oil level. Use approximately 2¾ pints of a high quality detergent oil classified as SC, SD or SE. Do NOT use any additives.

16 H.P. engine approximately 3½ pints
11 H.P. engine approximately 3 pints

ABOVE FREEZING USE
SAE 30
SAE 10W-30
SAE 10W-40

BELOW FREEZING USE
SAE 5W-20
SAE 5W-30
SAE 10W

CONTROLS

Throttle Control—The throttle control is located on the right side of the dashboard and is used to regulate the engine speed. The engine should be operated from ¾ to full throttle (fast) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller. See figure 3.

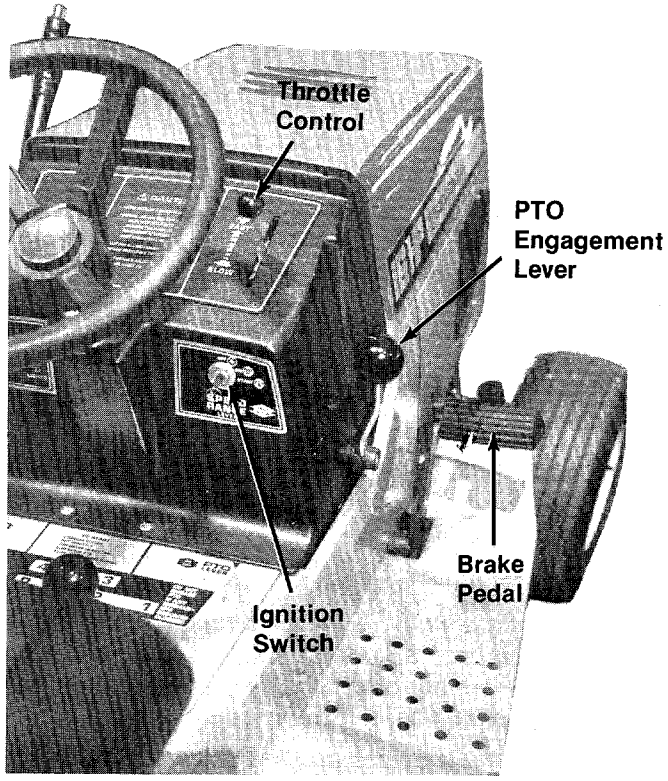


FIGURE 3.

Ignition Switch—The ignition switch is located on the right side of the dashboard. Turn the key to the START position to start the engine. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position. See figure 3.

WARNING

Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

Brake Pedal—The brake pedal is located on the right side of the frame. Depressing the brake pedal will engage the disc brake located on the transaxle. The clutch pedal MUST be depressed as well as the brake pedal to stop the tractor. See figure 3.

Ammeter—The ammeter registers the rate of battery charge. The head lamps operate directly from the engine alternator and the use of the head lamps does not register on the ammeter. The maximum charging rate for the battery is 3 amperes with the engine operating at its maximum speed. (See figure 4.)

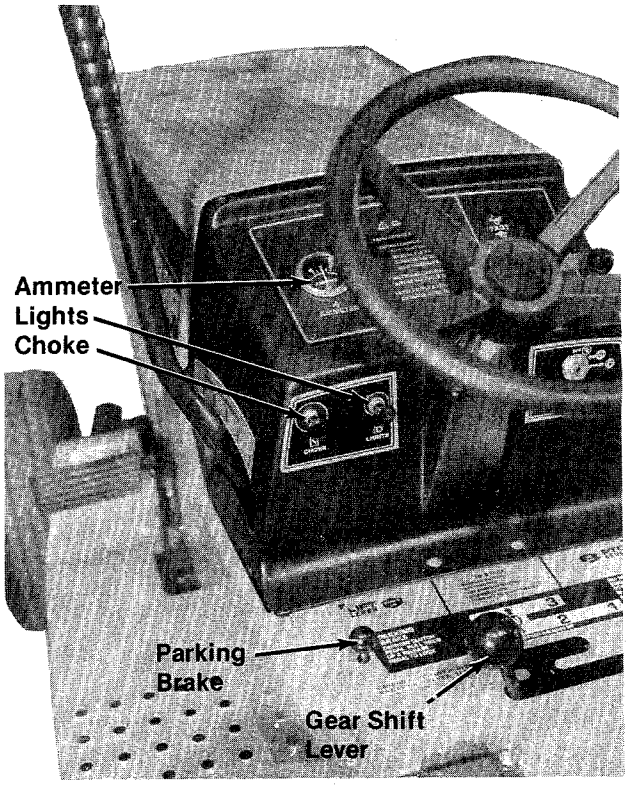


FIGURE 4.

Choke—The choke control is located on the left side of the dashboard. When starting the engine, pull the choke knob out. After the engine warms up, push the choke knob in gradually until the engine runs smoothly with the choke knob all the way in. A warm engine requires less choking. See figure 4.

Lights—The headlamps are operated by pulling out the Light Switch Knob located on the left side of the dashboard. The headlamps will only operate when the engine is running. See figure 4.

Parking Brake—To set the parking brake, depress the clutch pedal and pull up the parking brake knob. It will stay in the raised position. To release the parking brake, depress and release the clutch pedal. See figure 4.

Gear Shift Lever—The transaxle has four forward gears, neutral and reverse. You do not shift through the gears on the transaxle as you would in an automobile. Pre-select the gear appropriate for the job you are doing. See figure 4.

You must depress the clutch pedal and come to a complete stop before shifting gears. See figure 5.

Clutch—The clutch pedal is located on the left side of the tractor. Depressing the clutch pedal disengages the clutch. The clutch pedal must be depressed when you shift the transaxle, come to a complete stop with the engine running and start the engine. See figure 5.

The clutch pedal must be depressed to engage the parking brake.

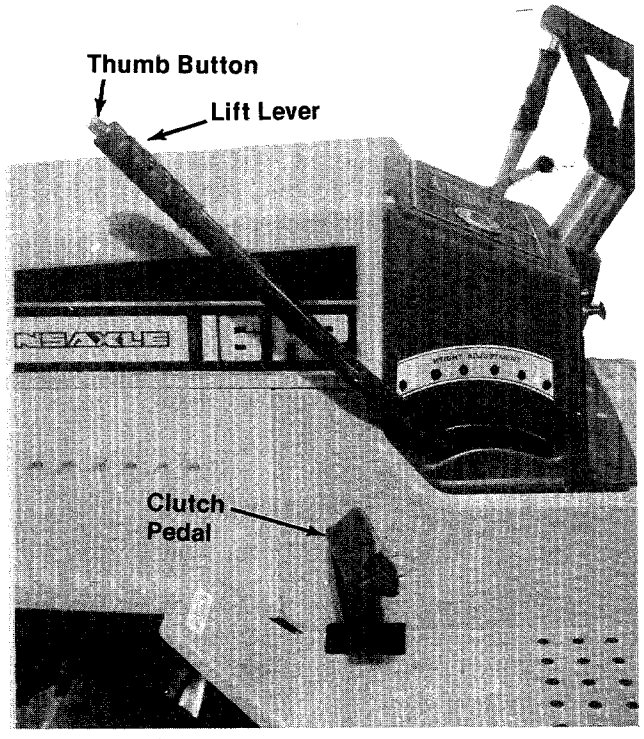


FIGURE 5.

Gasoline Tank—The gasoline tank is located under the tractor seat. Fill the gasoline tank with approximately 3 gallons of clean, fresh, lead-free or leaded "regular" grade automotive gasoline. Tip the seat forward to fill the tank. See figure 6.

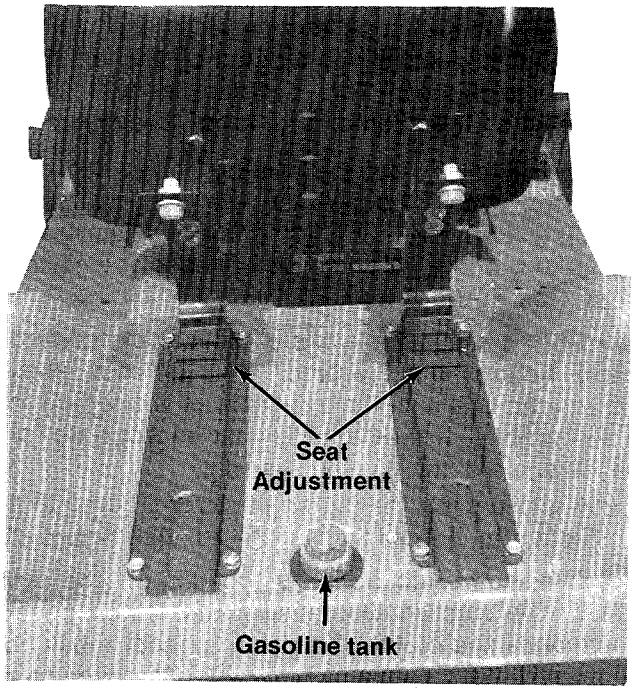


FIGURE 6.

Seat Adjustment—The tractor seat is adjustable to four positions. To change positions, tip the seat all the way forward and lift it out of the slots on each side. See figure 6.

Lift Lever—The seven position lift lever is used to change the operating position of all the front, center and rear mounted attachments. To operate, depress the thumb button, move the lift lever to the desired position and release the button. See figure 5.

Power Take Off (PTO)—The PTO Lever is located on the right side of the tractor. Moving the lever forward engages the PTO and moving it backward disengages it. Figure 3 shows the PTO lever in the engaged position.

CAUTION
Engage PTO Lever slowly.

The PTO lever engages the blades on the cutting deck and the optional PTO kit. The PTO kit is needed to operate the snow thrower attachment and rotary tiller.

The PTO lever must be in the disengaged position in order to start the engine.

Side Panels—The right and left side panels can be removed for maintenance or attaching accessories. To remove, turn the four screws in the corners a ¼ turn to the left and remove. Used on 16 H.P. only. See figure 7.

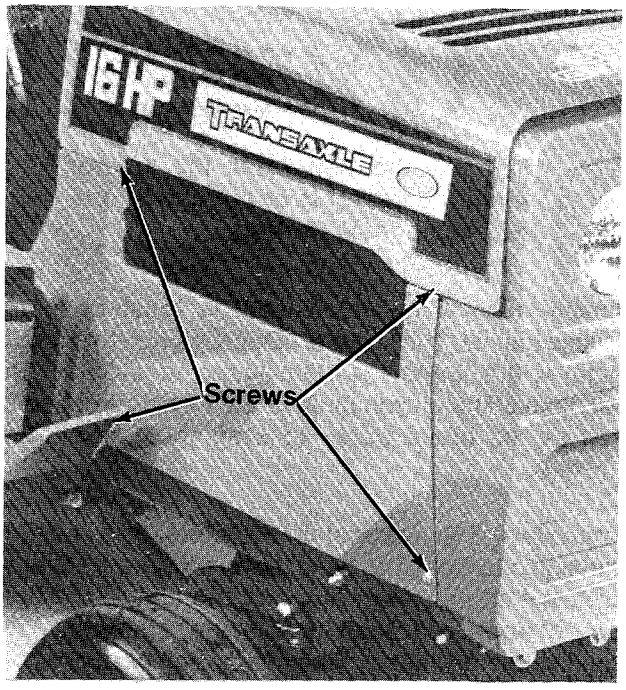


FIGURE 7.

OPERATION

Starting Procedure

A. Disengage the PTO lever. See figure 3.

B. Depress and hold down the clutch pedal. See figure 5.

C. Set the throttle control in the fast position. See figure 3.

D. Pull the choke knob out. See figure 4.

NOTE
A warm engine requires less choking.

E. Turn the ignition key clockwise to the start position. See figure 3.

F. Release the key when the engine is running.

G. Push the choke knob in gradually until the engine runs smoothly.

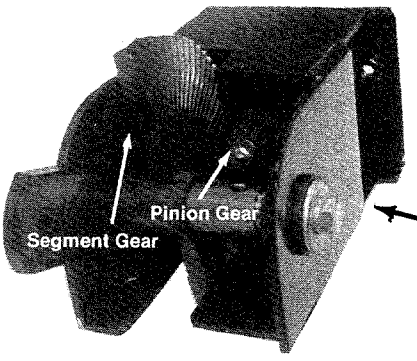
H. With the clutch pedal still depressed (disengaged), put the gear shift lever in one of the four forward or reverse positions. See figure 4.

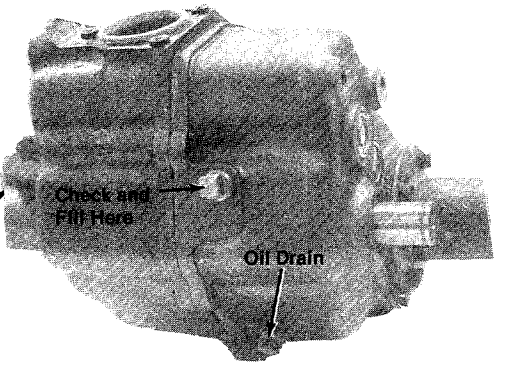
I. Release the clutch pedal slowly.

LUBRICATION CHART

Steering Gears—Wipe off old grease and dirt. After every 25 hours of operation place an automotive multi-purpose grease in the teeth of the segment and pinion gears.

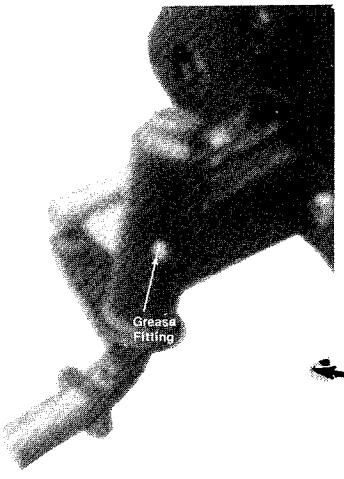
Transaxle—Check oil level four times a year. Lubricant should be at the point of overflowing. Use SAE E.P. 90 oil. Drain and refill every two years. Capacity 4 pints.

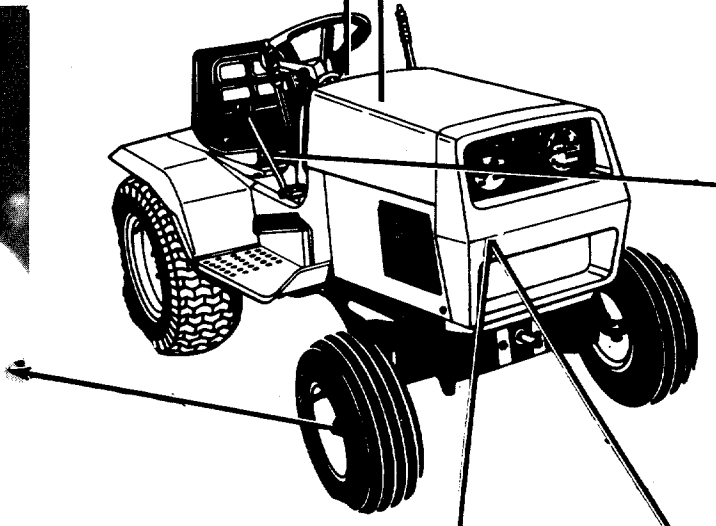


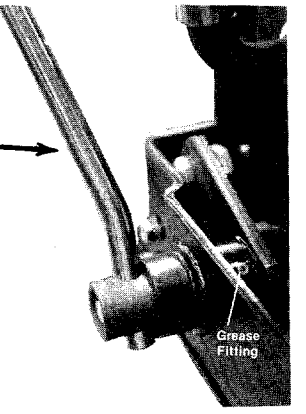


King Pins—(One on each side of the tractor.) Lubricate with a grease gun after every 25 hours of operation. Use automotive multi-purpose grease.

PTO Engagement Lever—Lubricate with a grease gun after every 25 hours of operation. Use an automotive multi-purpose grease.







Oil Level—Maintain oil between ADD and FULL marks on dipstick. Check after each 5 hours of operation.

Oil Drain—Change oil after the first 5 hours of operation and every 25 hours thereafter. Remove plug and drain oil while engine is warm.

Fill engine with detergent oil classified as SC, SD or SE. 16 H.P. capacity 3½ pints, 11 H.P. capacity 3 pints.

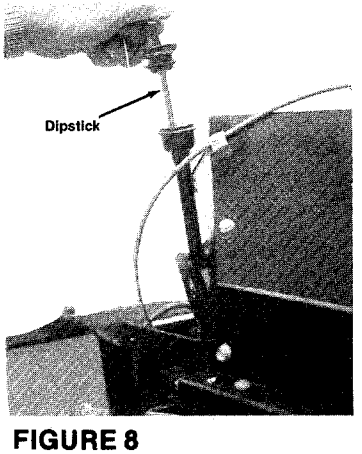
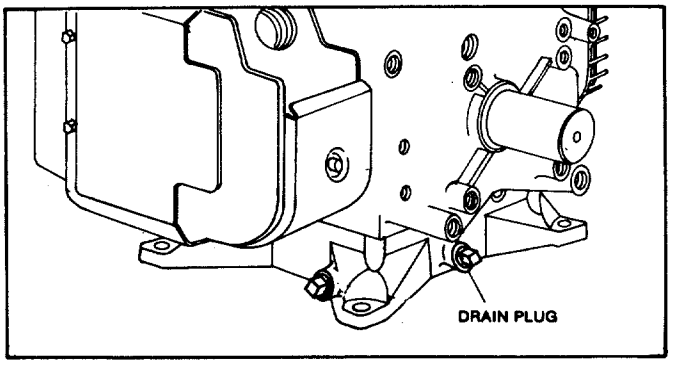


FIGURE 8

ABOVE FREEZING USE
- SAE 30
- SAE 10W 30
- SAE 10W40

BELOW FREEZING USE
- SAE 5W 20
- SAE 5W30
- SAE 10W

Note: Engine shown is 16 H.P. On the 11 H.P. engine the oil drains through the frame with an elbow.



LUBRICATION

The following friction points require NO LUBRICATION.

1. Front wheel bearings.
2. Tie rod ends.
3. Drag link ends.
4. Steering column bearings.

Throttle and Choke Cables.

If the throttle or choke cable works stiff, lubricate the entire length of the cable with a penetrating silicone type spray or wipe the cable with an oiled rag.

Lubricate all pivot points on the clutch and brake linkage and lift mechanism with SAE 30 oil once a season. A small hydraulic oiler will make this easier.

ADJUSTMENTS

CHANGING V-BELTS FROM THE ENGINE TO THE TRANSAXLE.

1. Remove and ground the spark plug wire.
2. Depress the clutch-brake pedal and set the parking brake.
3. Remove the PTO belt from the engine pulley if your tractor is equipped with a Power Take Off.

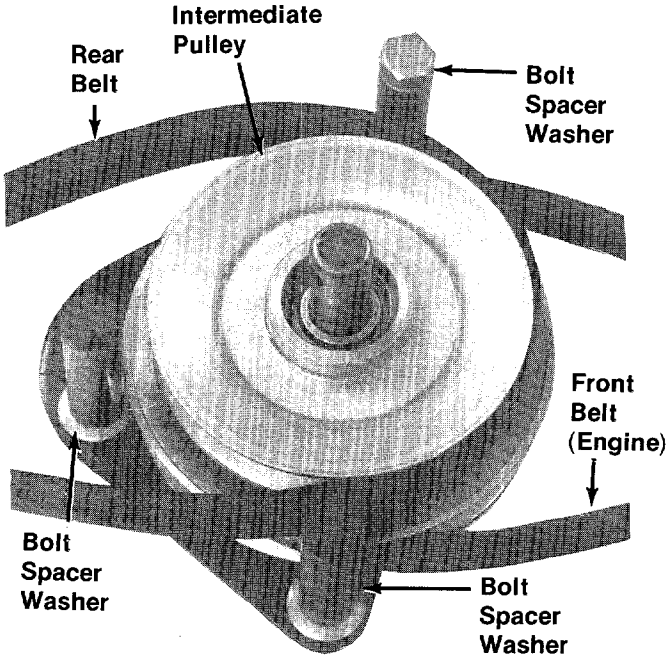


FIGURE 9.

4. Remove the bolt, lockwashers and flat washer holding the pulley to the engine crankshaft.
5. Slide off the engine pulley and remove the front belt from the pulley.
6. Remove the three bolts, spacers and belleville washers on the intermediate pulley belt guard.
7. Unhook the rear belt from the intermediate pulley. See figure 9.
8. Remove the front belt from the intermediate pulley.
9. Remove the rear belt from the idlers and transaxle pulley. See figure 10.

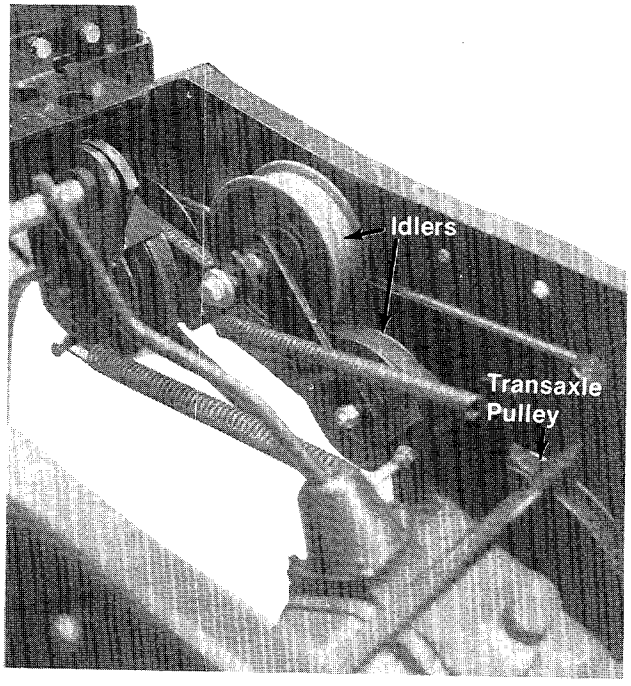


FIGURE 10.

BRAKE ADJUSTMENT

The clutch brake pedal must be in the released position when you adjust the brake.

WARNING

Be sure to block the wheels of the tractor before making the brake adjustment.

1. Remove the cotter pin in the castle nuts on the disc brake.

NOTE

The disc brake is located on the left side of the tractor on the transaxle.

2. Tighten (turn clockwise) the castle nut until it stops. See figure 11.
3. Loosen (turn counterclockwise) the castle nut one complete turn.
4. Install a new cotter pin.
5. Remove the blocks from the wheels.

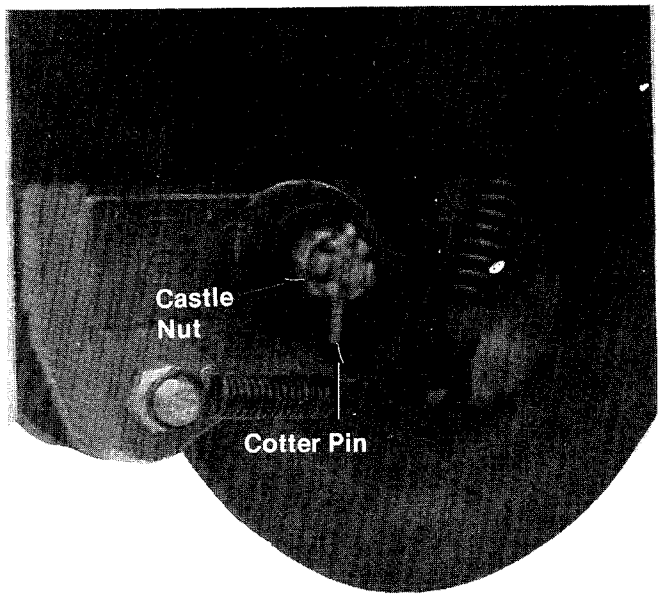


FIGURE 11.

Wheel Alignment

Measure the distances A and B on the front wheels. (See figure 12.)

Dimension B should be approximately 1/8 inch less than dimension A.

To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, lift the tie rod end out of the hole in the steering arm and screw the tie rod end in or out as necessary. (See figure 13.)

Reassemble the tie rod end after the correct alignment is made.

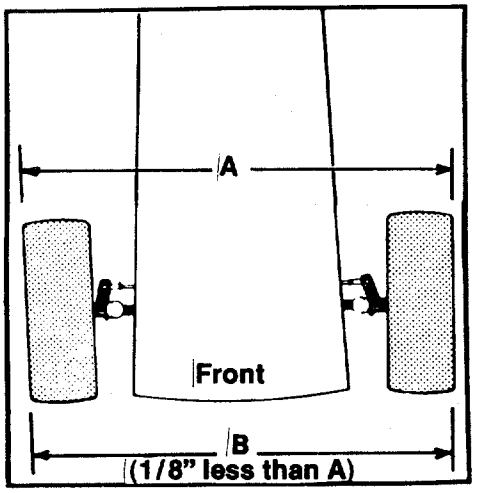


FIGURE 12.

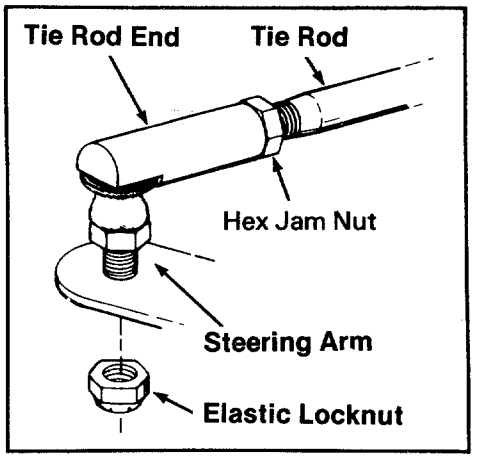


FIGURE 13.

Drag Link

The adjusted length of the drag link from the steering gear to the left front axle bracket should not be changed if either the drag link or ball joints are replaced.

To take off the drag link, remove the nuts and lockwashers holding the ball joints to the steering gear and left front axle bracket. Measure the overall length and adjust the replacement parts to the same length and install to the tractor.

BATTERY REMOVAL

Whenever a battery is installed in a tractor, attach the positive cable first and then the negative (ground) cable.

When removing the battery, always disconnect the negative (ground) cable first.

BATTERY CARE AND HANDLING

The use of distilled water is recommended, however, you may use drinking water unless it has a high mineral content.

During freezing weather do not add water to the battery unless the tractor is going to be operated for a sufficient time to properly charge the battery.

Maintain the fluid level in the battery to the level indicated on the top of the battery. Keep the terminals clean and coated with grease.

BATTERY STORAGE

If your tractor is not to be used during an off season, the battery can be left in the tractor, however, it MUST be stored in a fully charged condition. The specific gravity must read 1.265 or higher. Use a 12 Volt, DC charger with a MAXIMUM CHARGING RATE OF 4 TO 5 AMPS.

CAUTION

A discharged or partially discharged battery can freeze and crack causing extensive damage to the tractor.

During extreme cold weather, charge the battery every two months or whenever the specific gravity is less than 1.200.

Charge the battery just prior to being put back into service.

TIRE PRESSURE

The tires on your tractor have been over inflated for shipping purposes. The front and rear tires should be maintained at 15 p.s.i.

WARNING

Maximum tire pressure is 30 p.s.i.

INSTALLATION OF TIRE TO RIM

WARNING

The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

FUEL SHUT-OFF VALVE AND FILTER

The valve and filter is located on the bottom of the gasoline tank. Turn the valve knob in to shut off the fuel flow. Turn the valve knob out to operate the tractor.

The entire valve can be pulled out to clean the filter. When reassembling, place the grommet into the gasoline tank first, then push the valve all the way in.

WARNING

Only use factory approved parts if repairs are needed on the gasoline tank, grommet valve or gasoline line.

REAR WHEEL TRACK ADJUSTMENT

The rear wheels may be adjusted wider for more stability by reversing the wheels and rims on the hubs.

With the rear wheels in the narrow position, their outside is even with the outside of the front wheels. With the rear wheels in the wide position, their inside is even with the inside of the front wheels.

Use this chart to determine the rear wheel setting.

ATTACHMENT	MODEL NO.	WHEEL SET
42" Mowing Deck	198-957	N
50" Mowing Deck	198-958	W/N
12" Mold Board Plow	198-920	W
Tandem Disc Harrow	198-921	W
Spring Tooth Cult.	198-922	W
54" Snow Blade	198-954	N
48" Snow Thrower	198-955	N
Rotary Tiller	198-956	N

N—Narrow
W—Wide

Place a knot in the pulley notch and wind the rope around the pulley in a clockwise direction. Pull the rope with the choke closed to prime the engine. Open choke slightly and repeat operation.

After the engine warms up, open the choke gradually until engine runs smoothly with choke wide open.

POWER TAKE OFF 198-952A (Optional)

INSTALLING THE POWER TAKE OFF

1. Place the PTO assembly in back of the front axle and hook the top slotted hole on the PTO support bracket over the weld pins on the tractor. Tighten nuts finger tight. See figure 14.

NOTE

Photograph was taken with tractor engine removed for clarity.

2. Line up the holes on the bottom of the PTO support bracket with the holes in the tractor frame and attach with two 3/8 x 1" screws and belleville washers. See figure 15.
3. Tighten the upper nuts and lower screws on the PTO support bracket.

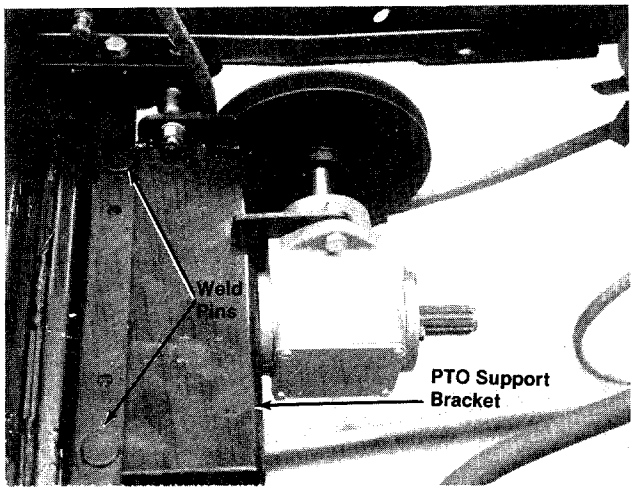


FIGURE 14.

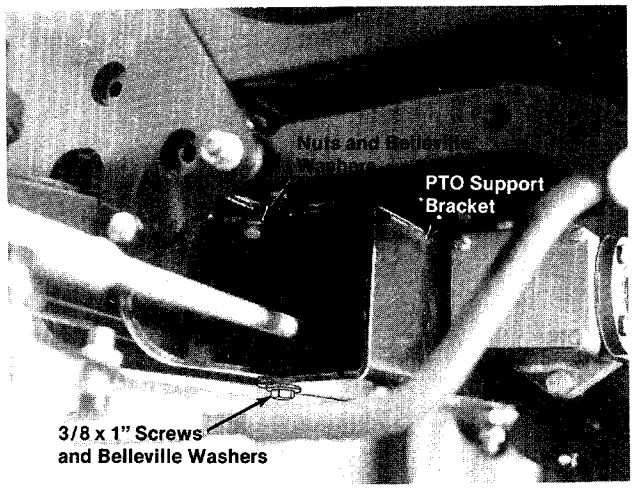


FIGURE 15.

Note: Before removing the PTO Drive Right Angle Gear Box for service, mark the front and rear. If it is assembled backwards the direction of rotation will be wrong for the rotary tiller and snow thrower.

ATTACHING THE PTO BELT

1. Unscrew the "L" handle on the PTO belt guard and pivot the PTO belt guard away from the PTO pulley. See figure 16.
2. Place the V-belt over the PTO pulley, move the belt guard back in place and tighten the "L" handle.
3. Push the belt keepers on the V-idler the direction of the arrows shown in figure 16 and rotate either direction.
4. Unscrew the "L" handle on the engine belt guard and pivot the engine belt guard away from the engine pulley.
5. Attach the V-belt over the V-idler (and under the flat idler) and over the engine pulley.
6. Turn the belt keepers into the locked position.
7. Move the engine belt guard back in place and tighten the "L" handle.

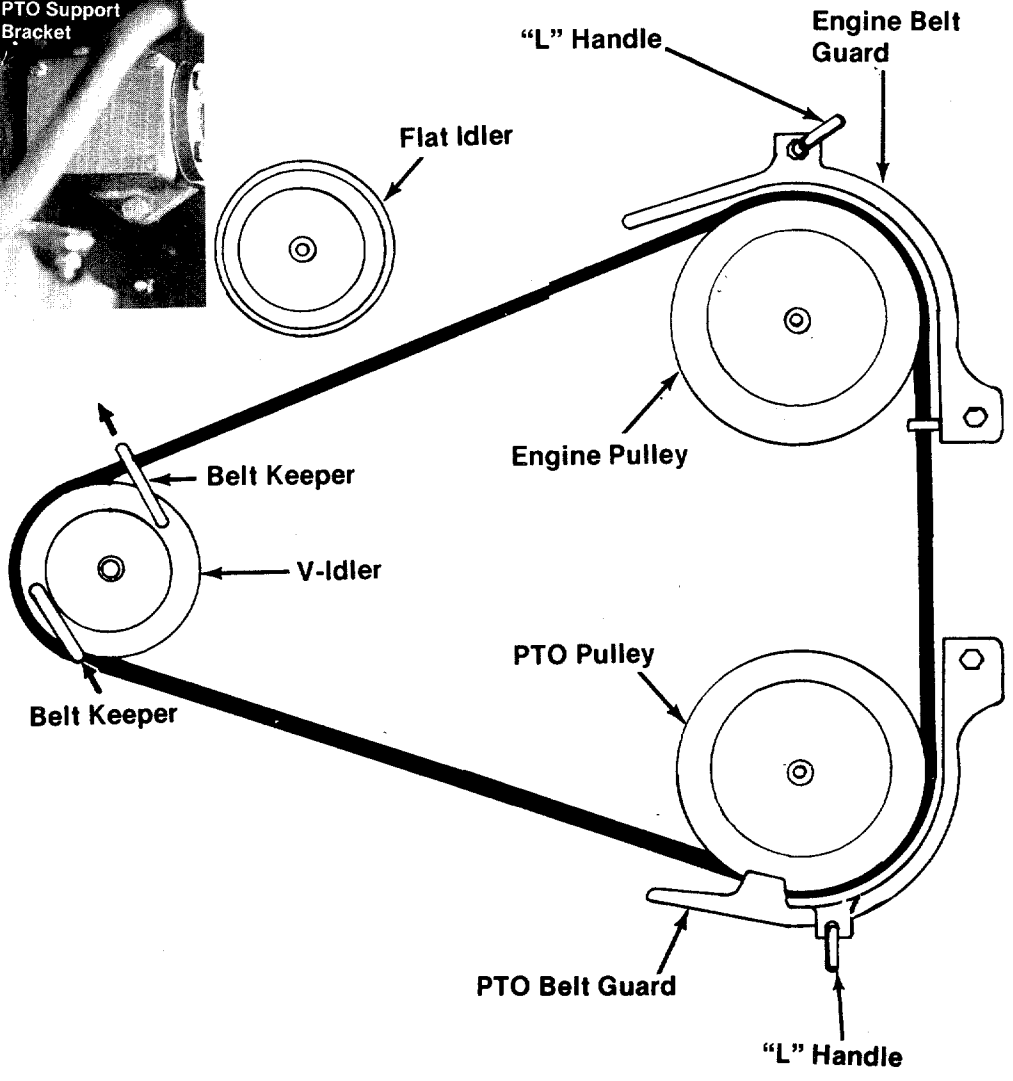


FIGURE 16.

POWER TAKE OFF 198-952A (Optional)

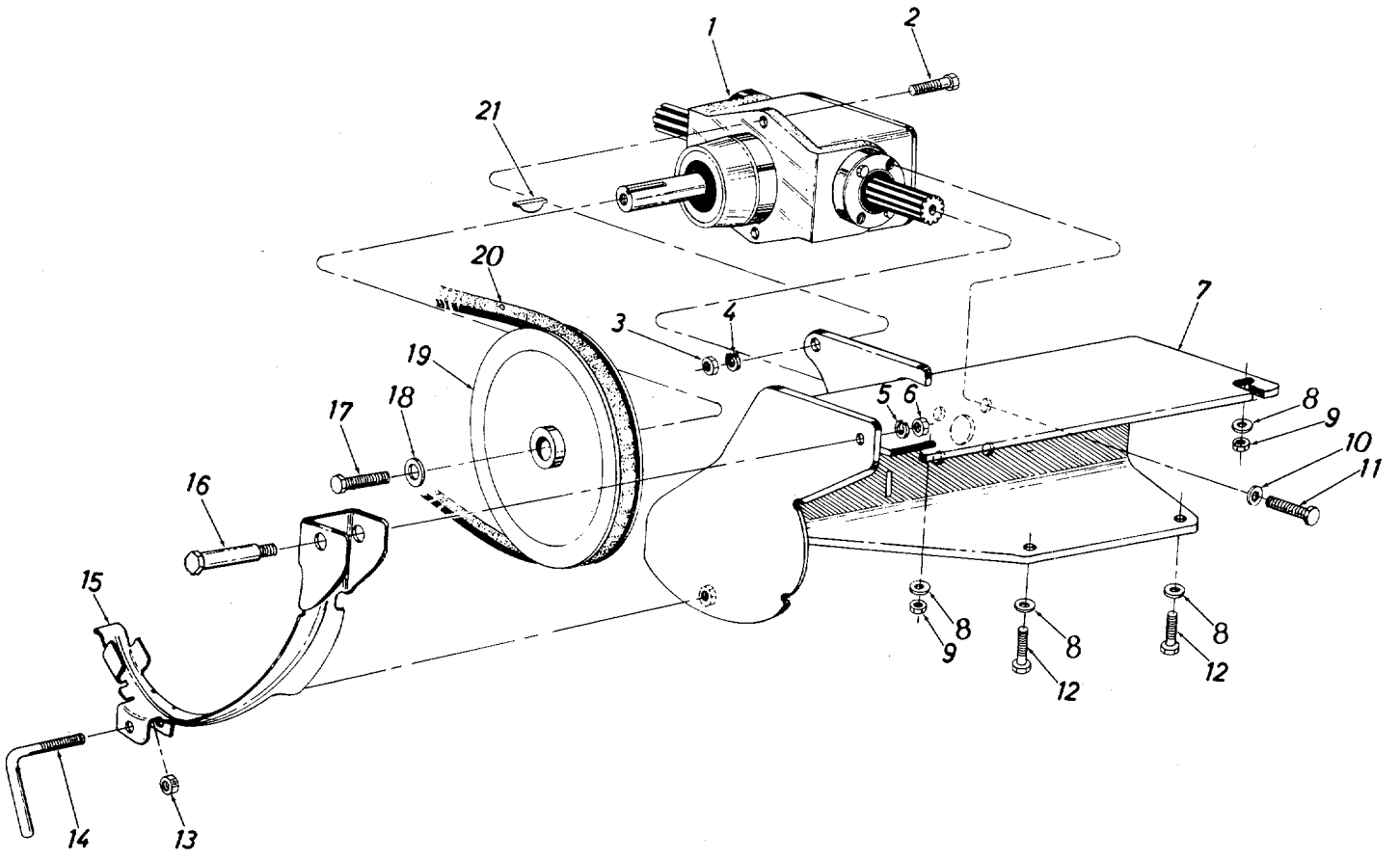


FIGURE 17.

PARTS LIST FOR FRONT P.T.O. KIT MODEL 198-952A

REF. NO.	PART NO.	DESCRIPTION	NEW PART	REF. NO.	PART NO.	DESCRIPTION	NEW PART
	—	"T" Drive Right Angle Ass'y.		12	710-0514	Hex Scr. 3/8-16 x 1.00" Lg. Grade 5	
	710-0514	Hex Scr. 3/8-16 x 1.00" Lg. Grade 5		13	712-0237	Hex Cent. L-Nut 5/16-24 Thd.	
3	712-0798	Hex Nut 3/8-16 Thd.*		14	747-0221	P.T.O. Locking Pin	
4	736-0169	L-Wash. 3/8" Scr.*		15	13159	P.T.O. Belt Guard	
5	736-0169	L-Wash. 3/8" Scr.*		16	738-0146	Shld. Bolt .50" Dia. x 1.34" Lg.	
6	712-0241	Hex Nut 3/8-24 Thd.*					
7	13154	P.T.O. Support Brkt. Ass'y.		17	710-0118	Hex Scr. 5/16-18 x .75" Lg. Grade 5	
8	736-0105	Bell. Wash.					
9	712-0798	Hex Nut 3/8-16 Thd.*		18	736-0242	Bell. Wash. 5/16" I.D.	
10	736-0498	Internal L-Wash. ¼" I.D.		19	756-0282	P.T.O. Pulley 7.00" O.D.	
11	710-0722	Hex Scr. ¼-20 x 1.125" Lg.		20	754-0214	"V"-Belt .50" x 50" Lg.	
				21	714-0126	#9 Hi-Pro Key 3/16 x 3/4"	

POWER TAKE OFF 198-952A (Optional)

Before Removing Right Angle gear Box, MARK FRONT And REAR MAYBE POSSIBLE FOR DIRECTION of ROTATION TO BE Different

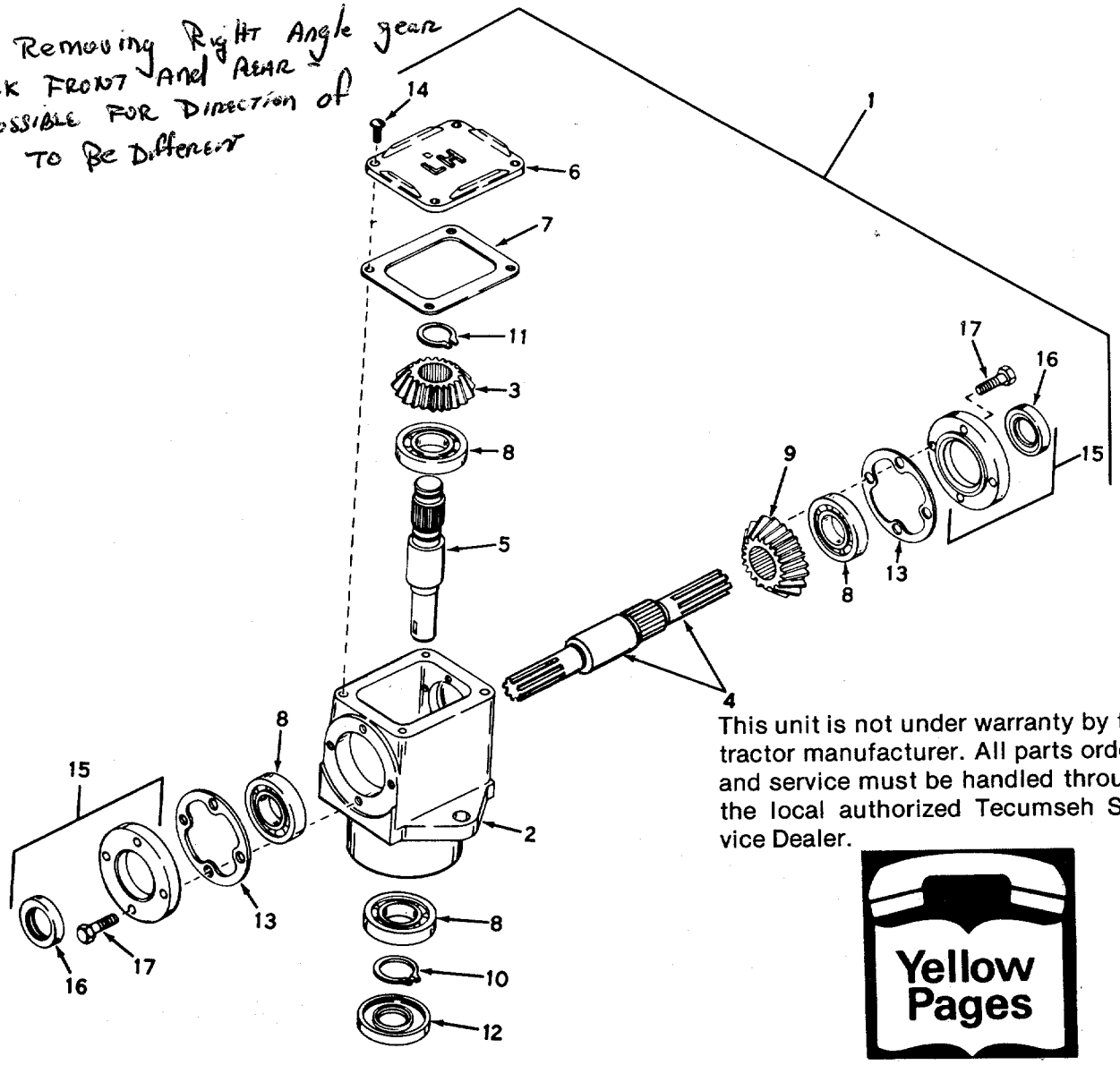


FIGURE 18.

This unit is not under warranty by the tractor manufacturer. All parts orders and service must be handled through the local authorized Tecumseh Service Dealer.

Yellow Pages

PEERLESS MODEL 3282-P91

Check the Yellow Pages of your telephone directory under "Engines—Gasoline."

"T" DRIVE HEAD MODEL NO. 3282-P91, SERVICE NO. 794210

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	PE-794210	Head Ass'y., T Drive (Includes 2 to 15)	10	PE-788019	Ring, Snap
			11	PE-788018	Ring, Snap
2	PE-770047	Housing T Drive	12	PE-788029	Seal, Oil
3	PE-778046	Gear, Miter	13	PE-788030	Gasket, Cap
4	PE-776179	Shaft, Input	14	PE-792025	Scr., Rd. Hd. Self Tap 10-24 x ½
5	PE-776178	Shaft, Output			
6	PE-772035	Cover	15	PE-786029	Cap & Seal Ass'y. (Incl. 16 and 17)
7	PE-788028	Gasket, Cover			
8	PE-780034	Bearing, Ball	16	PE-788031	Seal, Oil
9	PE-778069	Gear, Miter	17	PE-792026	Scr., Hex Hd. ¼-20 x 7/8

THREE POINT HITCH 198-951A (Optional)

INSTALLING THE THREE POINT HITCH

The optional three point hitch is needed for the rotary tiller, disc, cultivator and mold board plow. If you are using the mowing deck, disc, snow thrower or snow blade, it is not necessary to install a three point hitch.

1. Attach the ferrule to the upper arms using the cotter hairpins. See figure 19.
2. Screw the lift rod into the ferrule.
3. Attach the right draft bar to the side of the frame with a cotter hairpin. See figures 19 and 20 to determine which draft bar goes on the right side.
4. Line up the hole in the draft bar with the clevis end of the lift rod and push the clevis pin through both parts. Secure with a cotter hairpin.
5. Repeat the above steps with the left draft bar.
6. Screw the two halves of the center arm together and attach one end to any hole in the center mounting bracket with a clevis pin and a cotter hairpin. See figure 20.

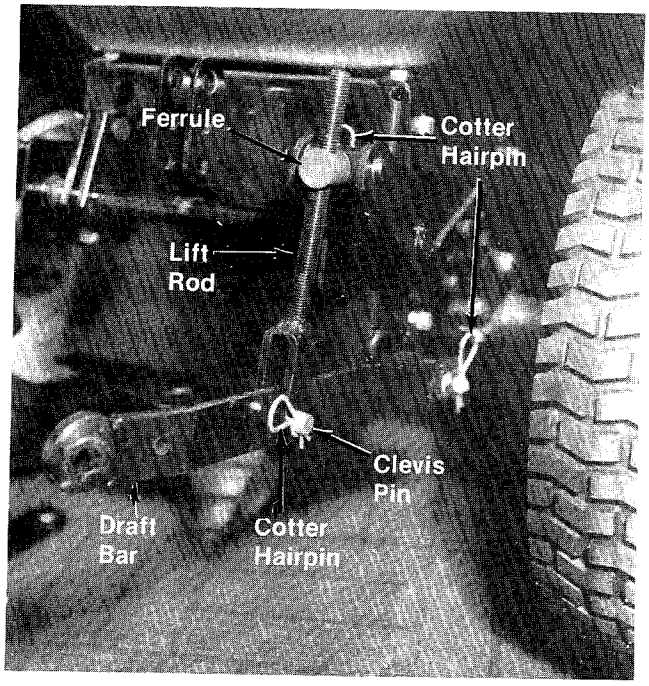


FIGURE 19.

7. Screw one hex nut all the way on to each of the hook bolts.
8. Place a lockwasher next to the hex nut and insert the hook bolt through the inside of the draft bar. Secure using a second nut. Do not tighten. See figure 21.
9. Fasten the chains to the hooks welded on the draft bars. Cross the chains over and attach to the opposite hook bolts.

NOTE

Pull the chains to make them as tight as possible.

10. Tighten the outside nuts on the hook bolts until there is approximately one inch of play in the center of the chains.

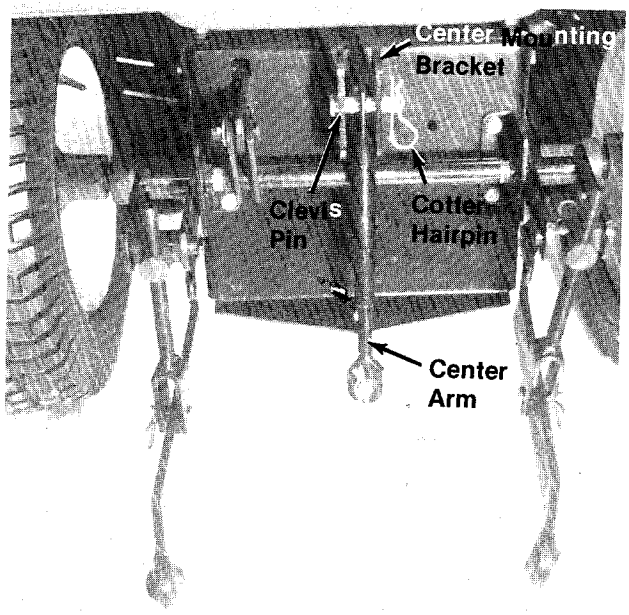


FIGURE 20.

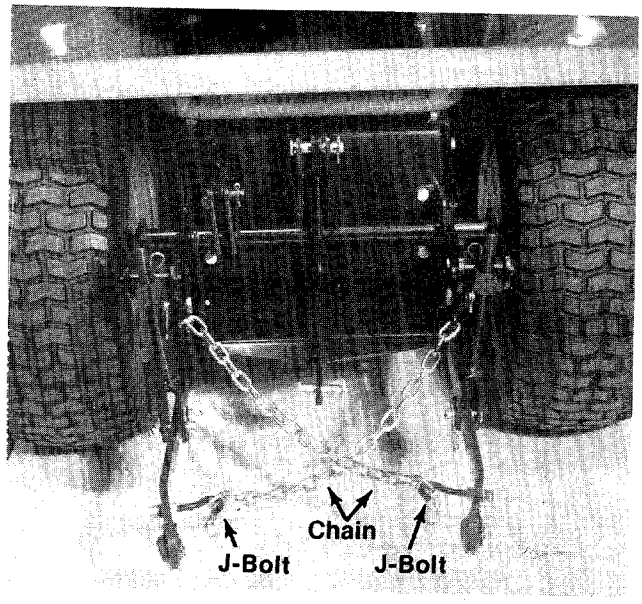


FIGURE 21.

THREE POINT HITCH 198-951A (Optional)

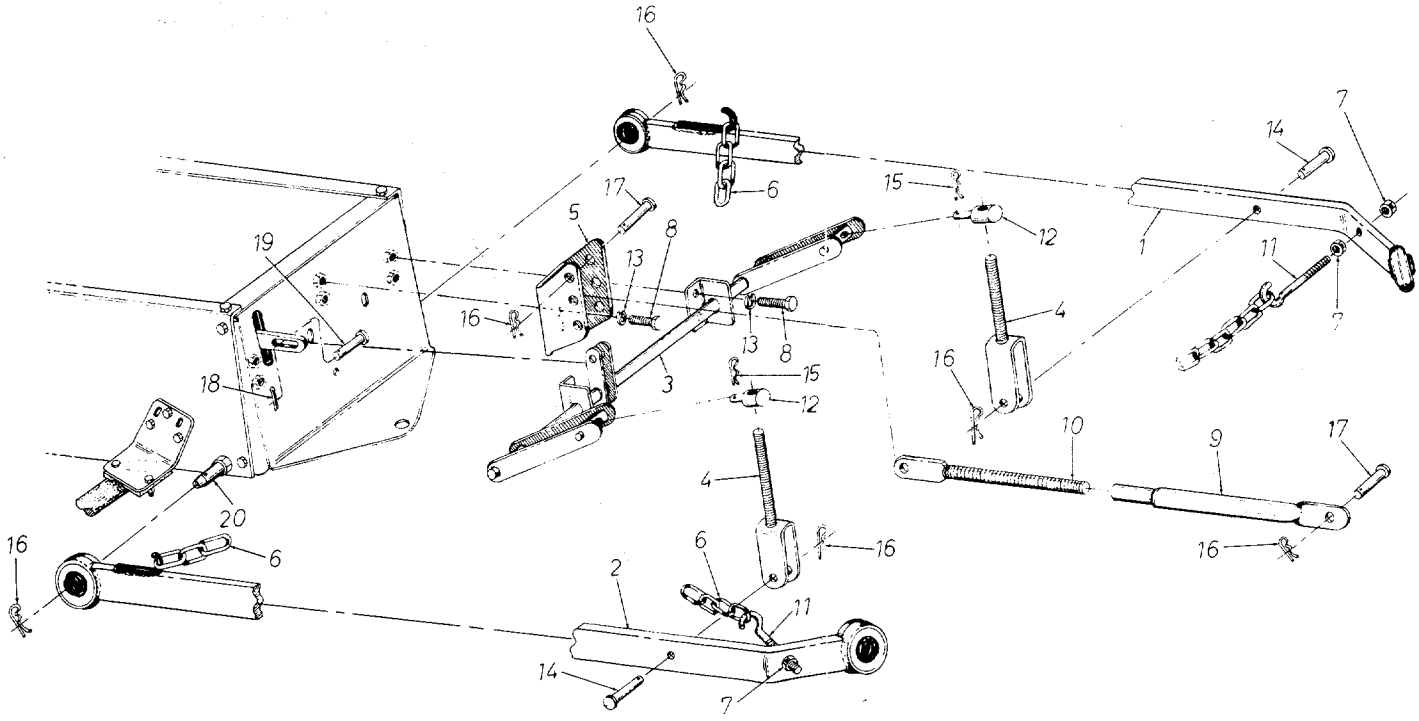


FIGURE 22.

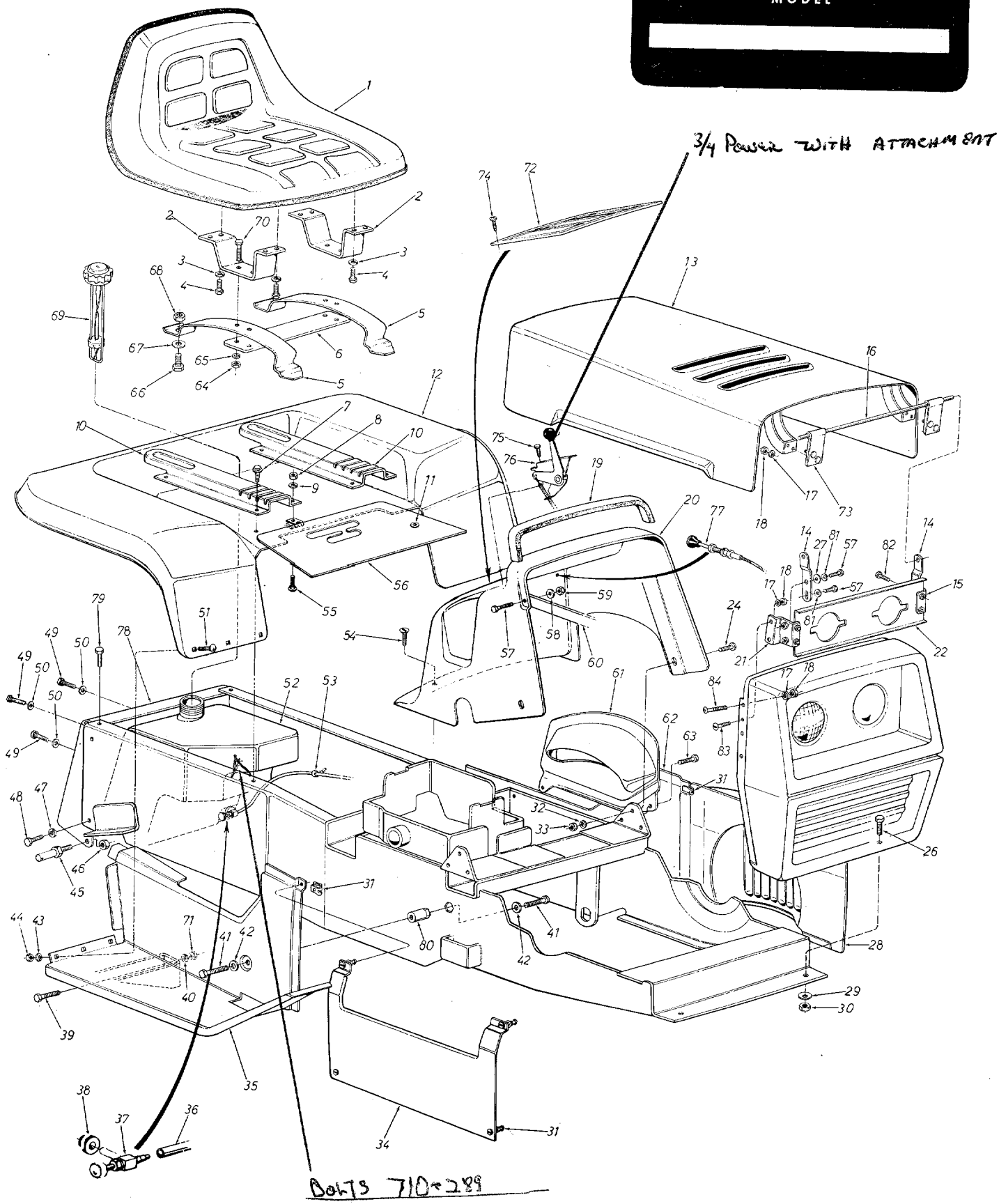
REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	13129	Draft Bar Ass'y. R.H.	
2	13130	Draft Bar Ass'y. L.H.	
3	13135	Rear Lift Shaft Ass'y.	
4	13138	Clevis Screw Ass'y.	
5	13026	Hitch Brkt.	
6	713-0148	Chain 20 Links	
7	712-0290	Hex Cent. L-Nut 7/16-14*	
8	710-0514	Hex Hd. Scr. Grade 5 3/8-16 x 1 Lg.*	
9	749-0238	Clevis Tubing	
10	711-0636	Clevis Screw	
11	711-0639	Hitch Chain Hook	
12	711-0649	Clevis Pin	
13	736-0217	Spring L-Wash. 3/8"*	
14	711-0225	Clevis Pin 5/8 Dia. x 1.66 Lg.	
15	714-0147	Hairpin	
16	714-0117	Hairpin	
17	711-0299	Clevis Pin 5/8 Dia. x 2.4 Lg.	
18	714-0470	Cotter Pin 1/8 Dia. x 1¼ Lg.*	
19	711-0654	Clevis Pin	
20	711-0497	Link Clevis Pin†	

†Not part of three point hitch kit.

148-910A
148-916A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO

MODEL



PARTS LIST FOR MODELS 148-910A AND 148-916A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0203		Seat Ass'y. Comp.	
2	13157		Seat Brkt.	
3	736-0169		L-Wash. 3/8" Scr.*	
4	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
5	13123		Seat Spring	
6	13214		Seat Support Plate	
7	710-0601		Hex Wash. Hd. Self Tap Scr. 5/16-24 x .75" Lg.	
8	712-0267		Hex Nut 5/16-18 Thd.*	
9	736-0119		L-Wash. 5/16" Scr.	
10	13124	—463	Seat Adjuster Brkt.	
11	731-0405		Snap Bushing	
12	13106	—463	Rear Fender Ass'y.	
13	13471	—463	Hood Ass'y.	N
14	13585	—463	Hinge Rod Support	N
15	13690	—463	Hood Support Brkt. Ass'y.—L.H.	N
16	747-0231		Hinge Rod	
17	736-0329		L-Wash. ¼" Scr.*	
18	712-0287		Hex Nut ¼-20 Thd.*	
19	722-0133		Foam Strip ½" Wide x 15" Lg.	
20	731-0462		Instrument Panel	N
21	13689	—463	Hood Support Brkt. Ass'y.—R.H.	N
22	13687	—463	Head Light Retainer	N
23	725-0222		Head Light	
24	710-0255		Truss Mach. Scr. ¼-20 x .75" Lg.*	
25	13475	—463	Front Grille	N
26	710-0376		Hex Scr. 5/16-18 x 1.00" Lg.*	
27	736-0211		Fl-Wash. .25 I.D. x 1.25 O.D.	
28	13394	—463	Panel Ass'y.—L.H. (916)	N
29	736-0242		Belleville Wash.	
30	712-0267		Hex Nut 5/16-18 Thd.*	
31	726-0166		¼-Turn Fastener Ass'y.	
32	736-0329		L-Wash. ¼" Scr.*	
33	712-0287		Hex Nut ¼-20 Thd.*	
34	13393	—463	Panel—R.H. (916)	N
35	13102	—463	Foot Step Panel—R.H.	
36	731-0150		Gas Hose 3/16" I.D. x 5/16" O.D. x 72" Lg.	
37	751-0171		Fuel Shut-Off Valve	
38	735-0149		Rubber Bushing	
39	710-0253		Hex Scr. 3/8-16 x 1.00" Lg. Grade 5	
40	736-0169		L-Wash. 3/8" Scr.*	
41	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
42	736-0117		Fl-Wash. .385 I.D. x .62 O.D.	
43	736-0329		L-Wash. ¼" Scr.*	
44	712-0287		Hex Nut ¼-20 Thd.*	
45	711-0497		Link Clevis Pin	
46	712-0923		Hex Cent. L-Nut 5/8-18 Thd.*	
47	736-0169		L-Wash. 3/8" Scr.*	
48	710-0514		Hex Scr. 3/8-24 x 1.00" Lg. Grade 5	
49	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
50	736-0270		Bell. Wash.	
51	710-0167		Carr. Bolt ¼-20 x .50" Lg.*	
52	751-0207		Fuel Tank	
53	725-0157		Tie Strap	
54	710-0618		Flat Hd. Self Tap Scr. ¼" Dia. x .62" Lg.	
55	710-0260		Carr. Bolt 5/16-18 x .62" Lg.*	
56	13107		Transmission Cover	
57	710-0252		Hex Scr. ¼-20 x .75" Lg.*	
58	736-0329		L-Wash. ¼" Scr.*	
59	712-0287		Hex Nut ¼-20 Thd.*	
60	13152		Grille Strap	
61	731-0383		Instrument Panel Insert	
62	13103	—463	Foot Step Panel—L.H.	
63	710-0599		Thread Rolling Scr. ¼"	
64	712-0267		Hex Nut 5/16-18 Thd.*	
65	736-0119		L-Wash. 5/16" Scr.*	
66	710-0689		Nylon Scr. ½-13 x .75" Lg.	
67	736-0160		Fl-Wash. ½" I.D.	
68	712-0384		Hex Cent. L-Nut ½-13 Thd.	
69	751-0226		Fuel Gauge	
70	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
71	712-0798		Hex Nut 3/8-16 Thd.*	
72	731-0384		Instrument Panel Cover	
73	13581	—463	Hood Hinge Ass'y.	N
74	710-0697		Self Tap Black Oval Hd. Scr. ½" Lg.	
75	710-0721		Fl-Hd. Truss Scr. #10 x .62" Lg.	
76	746-0337		Throttle Control Ass'y. (910)	N
	746-0335		Throttle Control Ass'y. (916)	N
77	746-0338		Choke Control Ass'y. (910)	N
	746-0336		Choke Control Ass'y. (916)	N
78	13196		Hitch Plate Ass'y.	
79	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
80	748-0252		Lift Shaft Pivot Pin	
81	736-0270		Bell. Wash.	
82	710-0294		Hex Scr. ¼-20 x .38" Lg.*	
83	710-0286		Truss Hd. Scr. ¼-20 x .50" Lg.*	
84	710-0255		Truss Hd. Scr. ¼-20 x .75" Lg.*	
85	13196	—463	Hitch Plate Ass'y.	

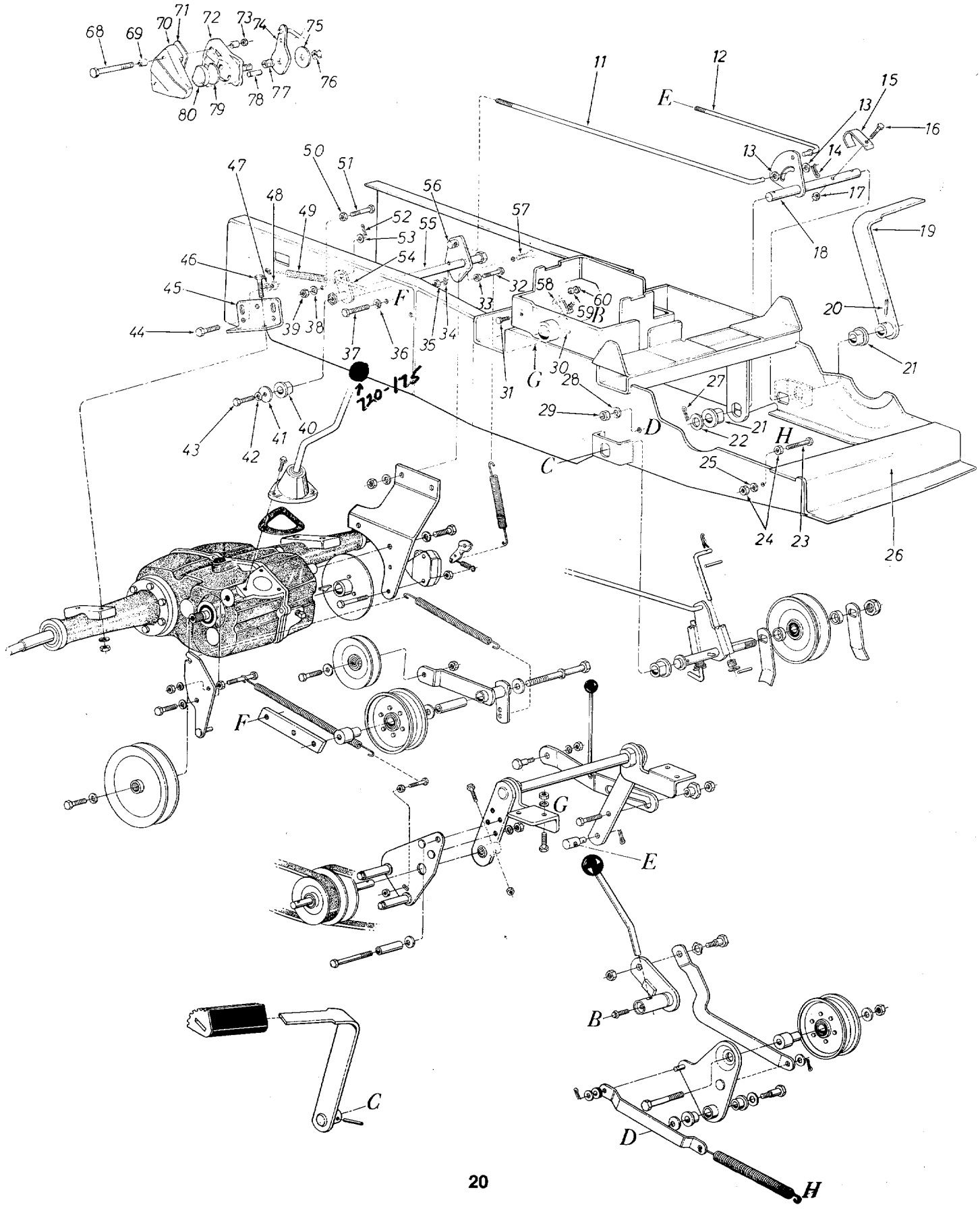
*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463—Top Flite Red)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Top Flite Red Finish—13471 (463).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."

148-910A
148-916A



PARTS LIST FOR MODELS 148-910A AND 148-916A

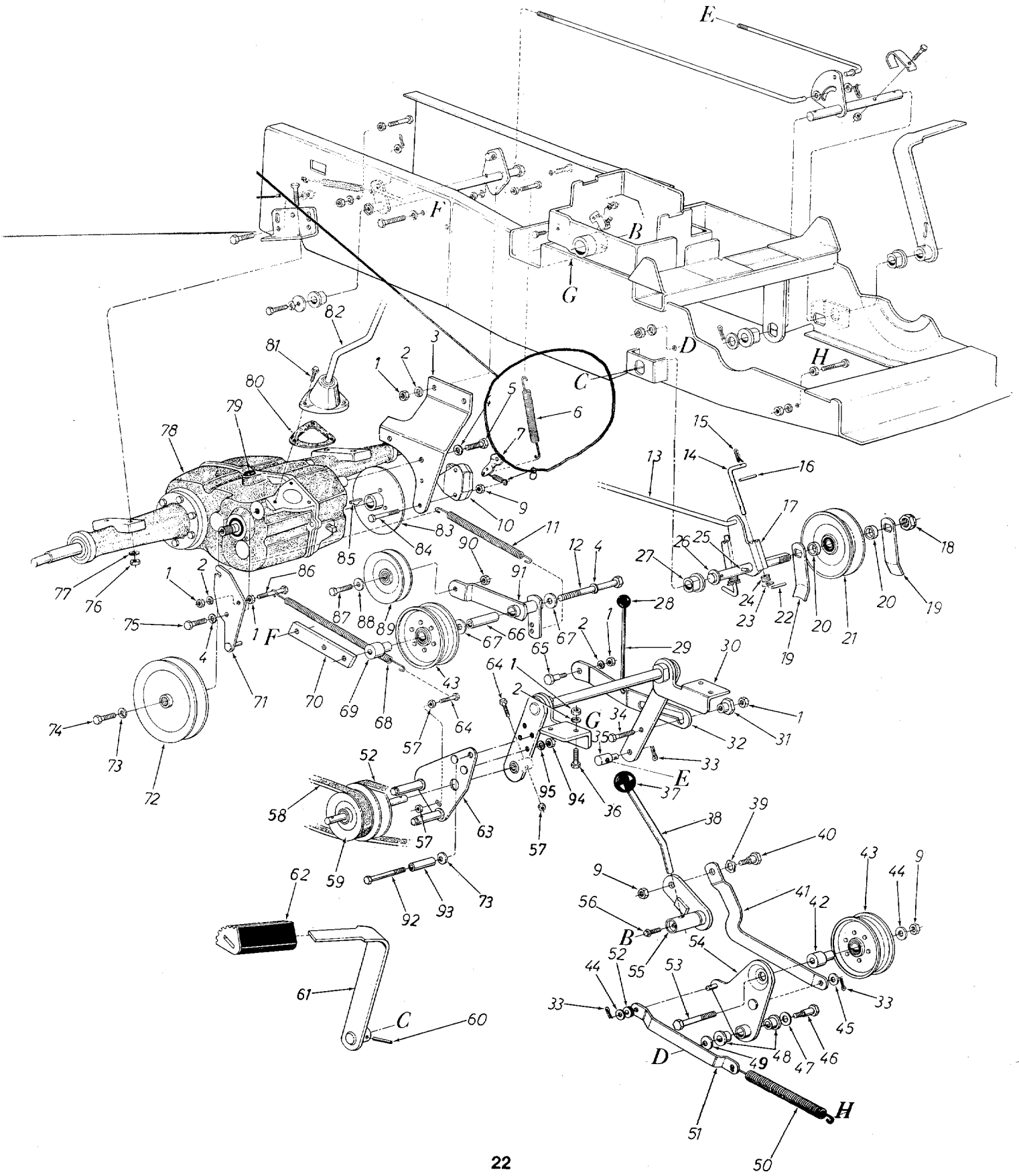
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
11	747-0229		Brake Rod	
12	747-0218		Clutch Control Rod	
13	736-0117		Fl.-Wash. .38 I.D. x .62" O.D.	
14	714-0474		Cotter Pin 1/8" Dia. x .75" Lg.*	
15	13160		Clutch Control Switch Plate	
16	710-0428		Hex Scr. ¼-28 x 1.25" Lg.*	
17	712-0117		Hex Cent. L-Nut ¼-28 Thd.	
18	13084		Clutch Control Brkt.	
19	13081		Foot Pedal Brkt.	
20	715-0114		Roll Pin ¼" Dia. x 1.50" Lg.*	
21	741-0199		Hex Flange Brg. Plastic	
22	736-0188		Fl.-Wash. .75 I.D. x 1.50" O.D.	
23	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
24	712-0267		Hex Nut 5/16-18 Thd.*	
25	736-0119		L-Wash. 5/16" Scr.*	
26	13392		Frame Ass'y.	N
27	714-0470		Cotter Pin 1/8" Dia. x 1.25" Lg.*	
28	736-0217		L-Wash. 3/8" Scr.*	
29	712-0214		Hex Top L-Nut 3/8-16 Thd.	
30	737-0146		Grease Fitting	
31	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
32	710-0528		Hex Scr. 5/16-18 x 1.25" Lg.*	
33	712-0267		Hex Nut 5/16-18 Thd.*	
34	736-0119		L-Wash. 5/16" Scr.*	
35	712-0267		Hex Nut 5/16-18 Thd.*	
36	736-0119		L-Wash. 5/16" Scr.*	
37	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
38	736-0329		L-Wash. ¼" Scr.*	
39	712-0138		Hex Nut ¼-28 Thd.*	
40	748-0227		Bronze Bearing	
41	736-0123		Fl-Wash. 5/16" I.D. x 1.125" O.D.	
42	736-0119		L-Wash. 5/16" Scr.*	
43	710-0538		Plastic Ms. Hex Scr. 5/16-16 x 1.50" Lg.	
44	710-0514		Hex Scr. 3/8-24 x 1.00" Lg. Grade 5	
45	13066		Transaxle Support Brkt.	
46	710-0347		Hex Scr. 3/8-16 x 1.75" Lg.*	
47	736-0217		L-Wash. 3/8" Scr. Heavy Duty*	
48	712-0241		Hex Nut 3/8-24 Thd.*	
49	732-0121		Extension Spring	
50	712-0138		Hex Nut ¼-28 Thd.	
51	710-0698		Hex Scr. ¼-28 x 1.50" Lg.*	
52	714-0474		Cotter Pin 1/8" Dia. x .75" Lg.*	
53	736-0117		Fl-Wash. .38" I.D.	
54	13062		Brake Rod Ass'y.	
55	13059		Brake and Clutch—Jack Shaft	
56	711-0179		Ferrule	
57	710-0322		Hex Scr. 5/16-18 x 1.00" Lg.*	
58	725-0577		Safety Switch	
59	736-0329		L-Wash. ¼" Scr.*	
60	712-0287		Hex Nut ¼-20 Thd.*	
68	710-0316		Hex Scr. 3/8-16 x 3.50" Lg.	
69	761-0138		Spacer	
70	HH-12-03045		Casting—Carrier Side	
71	HH-11-03436		Spacer	
72	HH-12-03041		Casting—Cam Side	
73	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
74	HH-18-02770		Cam Lever	
75	HH-03-03032		Thrust Wash. 5/16" I.D.	
76	712-0237		Hex Nut 5/16-24 Thd.*	
77	HH-06-03031		Compression Spring	
78	HH-05-03034		Push Pin	
79	HH-03-03097		Disc—Back Up	
80	HH-15-02533		Pad—Friction	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463—Top Flite Red)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Top Flite Red Finish—13471 (463).)

148-910A
148-916A



PARTS LIST FOR MODELS 148-910A AND 148-916A

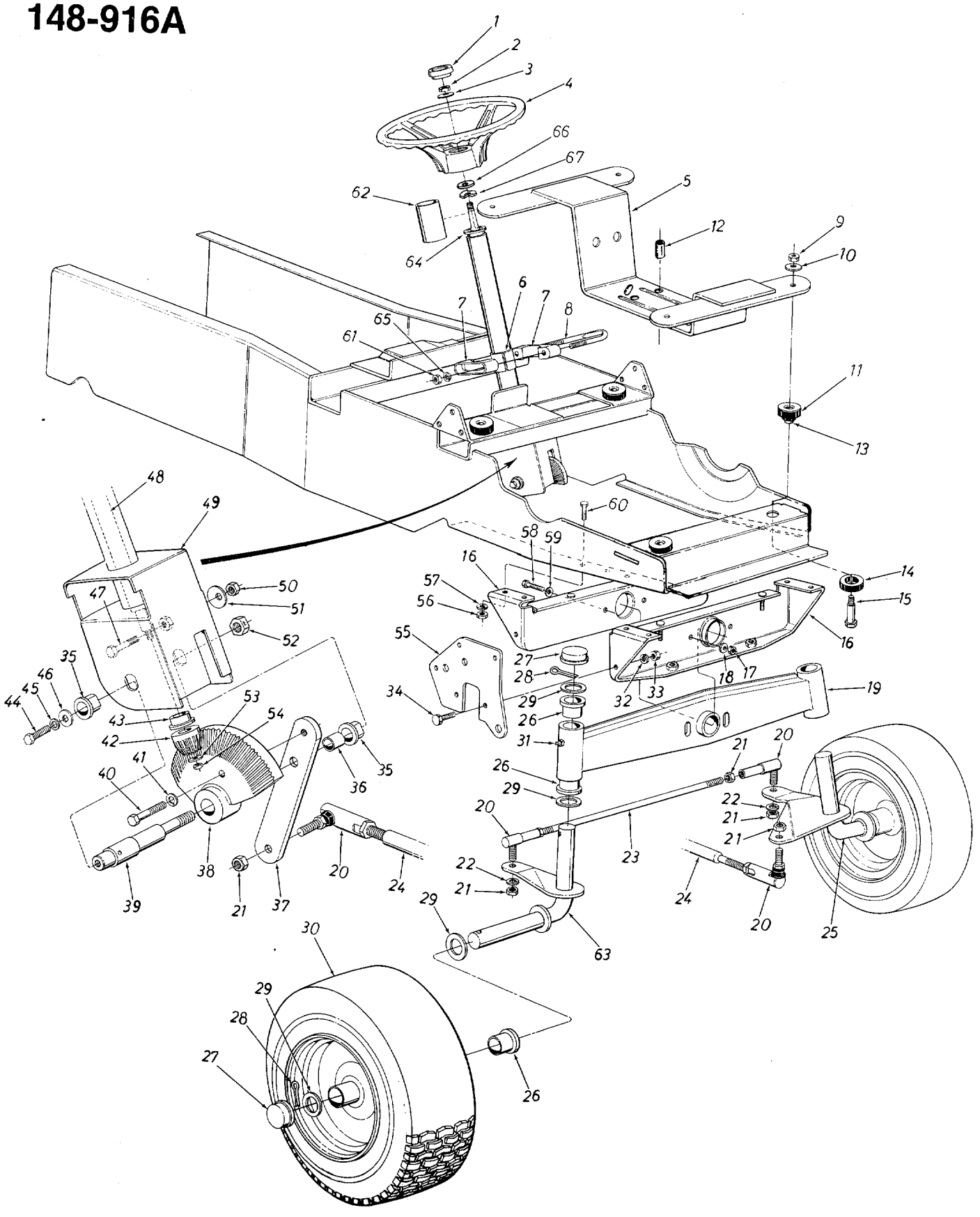
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0267		Hex Nut 5/16-18 Thd.*	
2	736-0119		L-Wash. 5/16" Scr.*	
3	13012		Transaxle Support Brkt.	
4	736-0169		L-Wash. 3/8" Scr.*	
5	710-0253		Hex Scr. 3/8-16 x 1.00" Lg. Grade 5	
6	732-0260		Brake Spring	
7	HH-18-02770		Cam Lever	
8	732-0339		Brake Return Spring	
9	712-0181		Hex Top L-Nut 3/8-16 Thd.	
10	761-0137		Disc Brake Ass'y. Comp.	
11	732-0233		Brake Spring	
12	710-0693		Hex Scr. 3/8-16 x 4.50" Lg.*	
13	13062		Brake Rod Ass'y.	
14	747-0226		Belt Guard	
15	714-0104		Hair Pin Cotter 5/16" Dia.	
16	715-0138		Roll Pin 1/8" Dia. x .63" Lg.*	
17	13082		Brake Control Brkt. Ass'y.	
18	712-0221		Hex Nut 5/8-18 Thd.*	
19	13183		Belt Guide	
20	750-0171		Spacer 5/8 I.D. x 7/8 O.D. x .25" Lg.	
21	756-0283		V-Idler Pulley 4½" O.D.	
22	715-0138		Roll Pin 1/8" Dia. x .63" Lg.*	
23	736-0117		Flat Wash.	
24	732-0334		Spring	
25	715-0134		Roll Pin 3/16" Dia. x 1.50" Lg.*	
26	736-0188		Fl-Wash. .76 I.D. x .06	
27	741-0199		Flange Bearing—Plastic	
28	720-0166		Parking Brake Knob	
29	747-0217		Parking Brake Rod	
30	13045		Mount Ass'y.	
31	711-0404		Shoulder Nut	
32	13108		Parking Brake Brkt.	
33	714-0474		Cotter Pin 1/8" Dia. x .75" Lg.*	
34	710-0322		Hex Scr. 5/16-18 x 1.00 Lg.*	
35	711-0198		Ferrule	
36	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
37	720-0175		Ball Knob	
38	747-0211		P.T.O. Handle	
39	736-0232		Wave Wash. ½" Dia.	
40	738-0143		Shoulder Bolt	
41	13076		Clutch Idler Link	
42	711-0598		Idler Adapter	
43	711-0306		Flat Idler Pulley 4-5/8" Dia.	
44	736-0300		Fl-Wash. 3/8" I.D.*	
45	736-0108		Fl-Wash ½" I.D. x ¾" O.D.*	
46	738-0146		Shoulder Scr.	
47	736-0100		Fl-Wash. ½" I.D.*	
48	748-0108		Bronze Bearing	
49	736-0219		Belleville Wash.	
50	736-0262		Extension Spring	
51	13077		Spring Strap	
52	754-0218		"V"-Belt 5/8" x 59" Lg.	
53	710-0427		Hex Scr. 3/8-16 x 2.00" Lg.*	
54	13074		Clutch Idler Plate	
55	13053		Actuator Lever Ass'y.	
56	710-0599		Hex Hd. Self Tap Scr. ¼-20 x .50" Lg.*	
57	712-0117		Hex Cent. L-Nut ¼-28 Thd.	
58	754-0211		"V"-Belt 5/8" x 46" Lg.	
59	756-0279 13034		Idler Pulley w/shaft & bearing	
60	715-0114		Spring Pin Spirol ¼" Dia. x 1.50" Lg.	
61	13080		Foot Pedal Brkt. Ass'y.—R.H.	
62	735-0189		Foot Pad (Right and Left)	
63	13192		Belt Guard Brkt. Ass'y.	
64	710-0428		Hex Scr. ¼-28 x 1.25" Lg. Grade 5	
65	738-0296		Shoulder Scr.	
66	750-0261		Spacer Tube	
67	736-0258		Fl-Wash. 3/8" I.D. x 1.00" O.D.*	
68	732-0276		Extension Spring	
69	711-0656		Idler Adapter	
70	13116		Idler Bracket	
71	13039		Spring Brkt. Ass'y.	
72	756-0281		Transaxle Pulley 7.00" Dia.	
73	736-0105		Belleville Wash.	
74	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
75	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
76	712-0298		Hex Nut 3/8-16 Thd.*	
77	736-0217		L-Wash. 5/8" Scr. Heavy Duty	
78	—		Transaxle (See Breakdown Page 32)	
79	722-0141		Bumper	
80	—		Part of Transaxle	
81	—		Part of Transaxle	
82	—		Part of Transaxle	
83	761-0142		Brake Disc Ass'y.	
84	710-0937		Hex Scr. 3/8-16 x 2.50" Lg.*	
85	714-0137		Hi-Pro Key 3/8" x 1.06" Lg.	
86	710-0395		Hex Scr. 5/16-18 x 2.25" Lg.*	
87	710-0344		Hex Scr. 3/8-16 x 1.50" Lg.*	
88	736-0267		Fl-Wash. 3/8" I.D.*	
89	756-0293		4" Dia. V-Idler	
90	712-0375		Hex Cent. L-Nut 3/8-16 Thd.*	
91	13060		Idler Arm Ass'y.	
92	710-0937		Hex Scr. 3/8-16 x 2.50" Lg.*	
93	750-0261		Spacer Tube	
94	712-0267		Hex Nut 5/16-18 Thd.*	
95	736-0119		L-Wash. 5/16" Scr.*	

(463—Top Flite Red)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Top Flite Red Finish—13471 (463).)

148-910A
148-916A



PARTS LIST FOR MODELS 148-910A AND 148-916A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0270		Belleville Wash.	
4	731-0356		Steering Wheel	
5	~~13476~~ 13490		Engine Support Ass'y.	N
6	750-0344		Tube Spacer	
7	06627		Bearing Block	
8	747-0101		"U"-Clamp	
9	712-0158		Hex Cent. L-Nut 5/16-18 Thd.*	
10	736-0242		Bell. Wash.	
11	722-0151		Engine Mount	N
12	711-0516		Engine Mount Spacer	N
13	722-0149		Engine Mount	N
14	722-0150		Engine Mount	N
15	738-0413		Shoulder Scr.	
16	13032		Front Pivot Brkt. Ass'y.	
17	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
18	736-0219		Belleville Wash.	
19	13008		Pivot Bar Ass'y.	
20	723-0179		Tie Rod End	
21	712-0922		Hex Nut ½-20 Thd.*	
22	736-0921		L-Wash. ½" Scr.*	
23	747-0214		Tie Rod	
24	13190		Drag Link	
25	13001		Front Axle Ass'y.—L.H.	
26	731-0374		Plastic Flange Bearing 1.0" I.D.	
27	731-0349		Dust Cover	
28	714-0142		Cotter Pin 3/16" Dia. x 1.50" Lg.*	
29	736-0259		Fl-Wash. 1.0" I.D.	
30	734-0771		Front Wheel Ass'y. Comp. 16 x 6.50	
	734-0787		Rim Only	
	734-0526		Tire Only 16 x 6.50	
31	737-0146		Grease Fitting	
32	736-0169		L-Wash. 3/8" Scr.*	
33	712-0798		Hex Nut 3/8-16 Thd.*	
34	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
35	741-0199		Flange Bearing	
36	750-0333		Steering Gear Shaft Spacer	
37	13132		Steering Arm	
38	748-0238		Bevel Gear	
39	738-0342		Steering Gear Shaft	
40	710-0344		Hex Scr. 3/8-16 x 1.50" Lg.*	
41	736-0169		L-Wash. 3/8" Scr.*	
42	748-0237		Pinion Gear	
43	748-0227		Flange Bearing	
44	710-0216		Hex Scr. 3/8-16 x .75" Lg.*	
45	736-0169		L-Wash. 3/8" Scr.*	
46	736-0133		Fl-Wash. 3/8" I.D. x 1.25 O.D.	
47	710-0670		Nylon Hex Screw	
48	738-0343		Steering Shaft	
49	13126		Steering Bracket Support Ass'y.	
50	712-0342		Hex Jam Nut 3/8-18 Thd.	
51	736-0219		Belleville Wash.	
52	712-0200		Hex Ins. L-Nut ½-20 Thd.	
53	736-0264		Fl-Wash. .344 I.D. x .62 O.D.	
54	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
55	13153		Front Pivot Brkt. Reinforcement	
56	712-0798		Hex Nut 3/8-16 Thd.*	
57	736-0169		L-Wash. 3/8" Scr.*	
58	710-0937		Hex Scr. 3/8-16 x 2.50" Lg.*	
59	736-0219		Belleville Wash.	
60	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
61	712-0267		Hex Nut 5/16-18 Thd.*	
62	750-0362		Steering Tube Outer	
63	13002		Front Axle Ass'y.—R.H.	
64	741-0138		Ball Bearing	
65	736-0119		L-Wash. 5/16" Scr.*	
66	736-0296		Double "D" Flat Wash.	
67	736-0174		Wave Wash. .660 I.D. x .88 O.D.	

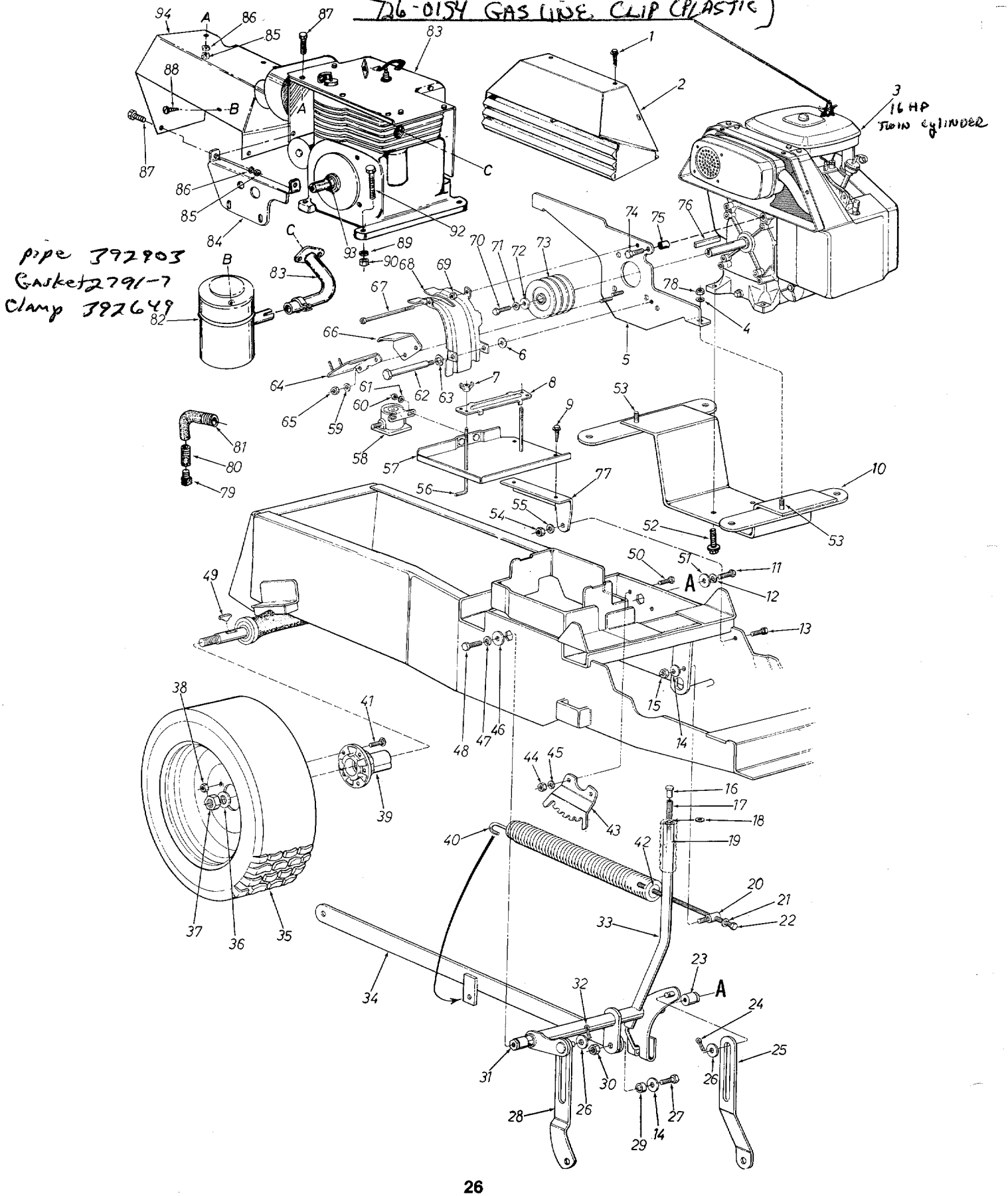
(463—Top Flite Red)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Top Flite Red Finish—13471 (463).)

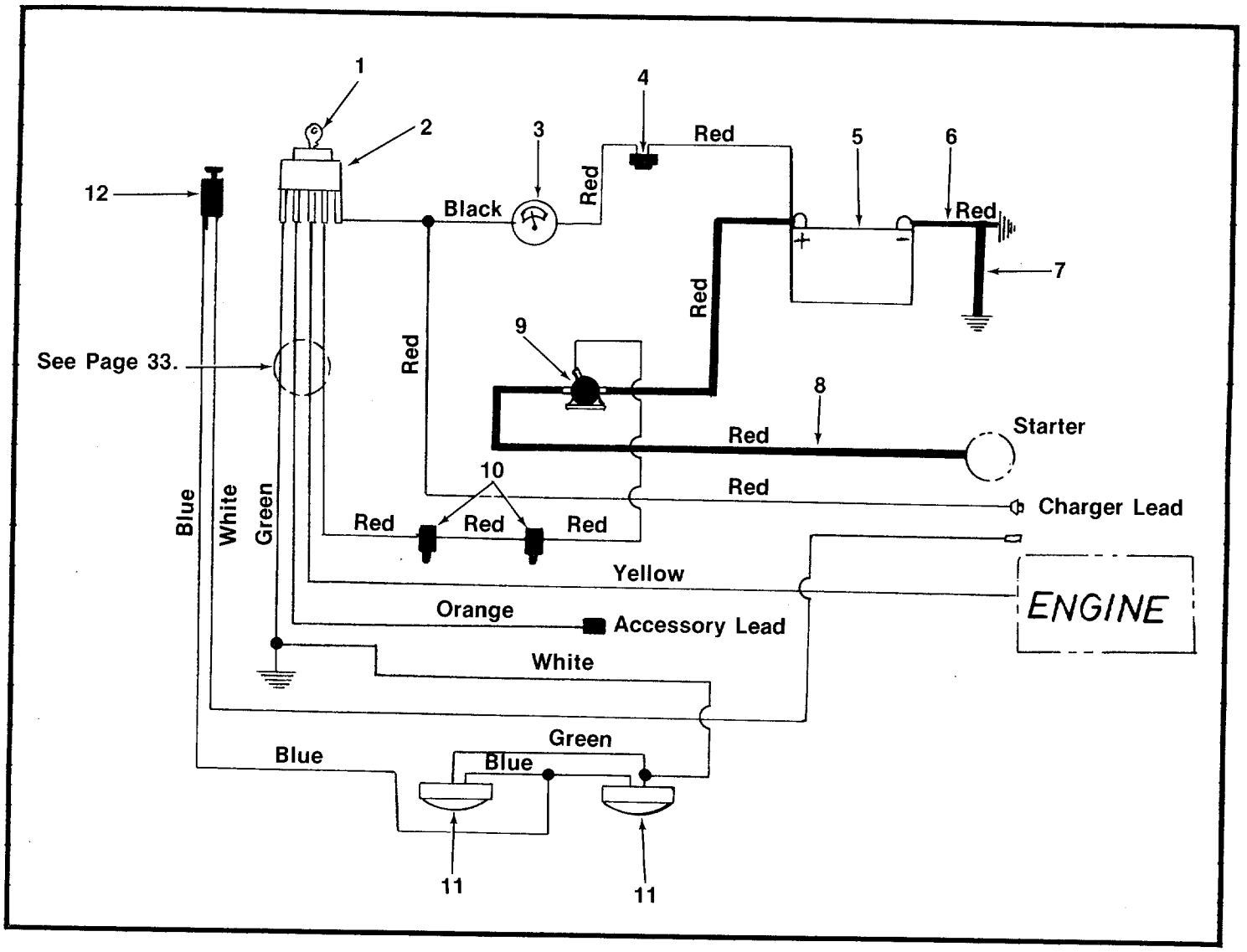
148-910A — 253417-0130-010
148-916A

726-0154 GAS LINE CLIP (PLASTIC)



PARTS LIST FOR MODELS 148-910A AND 148-916A

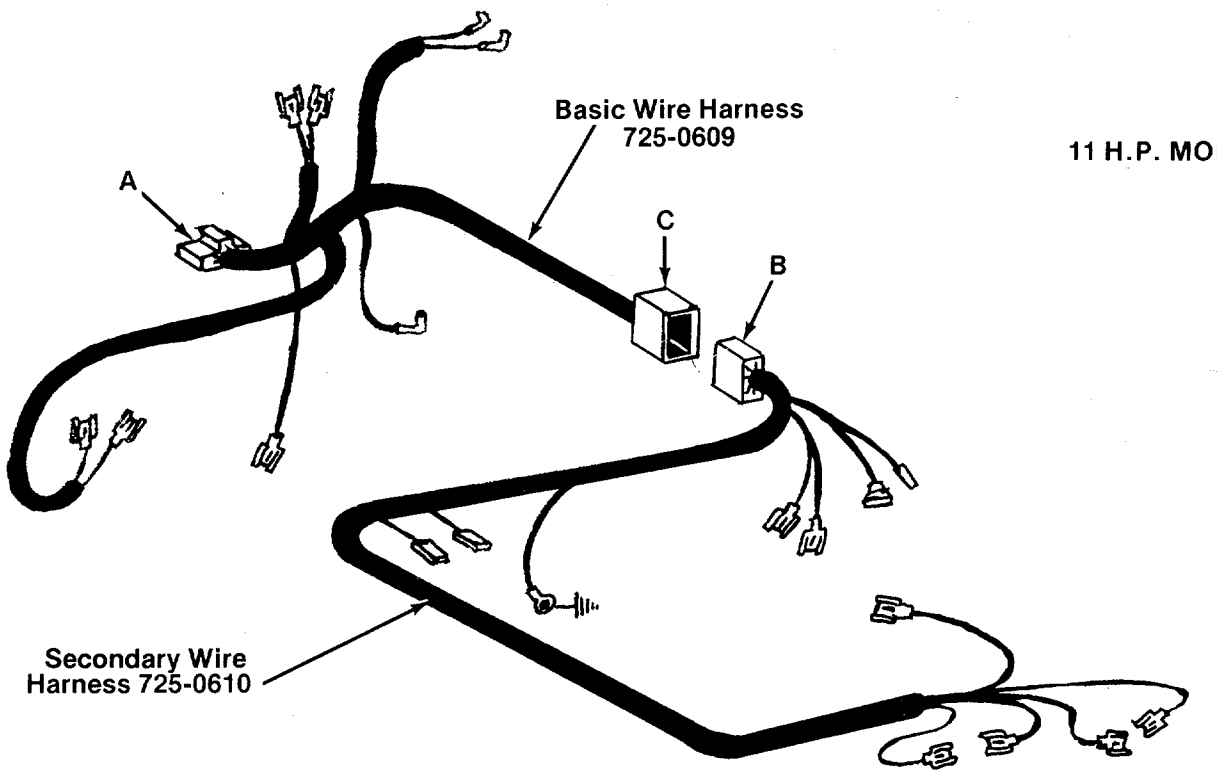
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0642		Hex Self Tap Scr. ¼-20 x .75" Lg.	
2	13429		Exhaust Shield Ass'y. (916)	N
3	—		16 H.P. Twin Cylinder Engine (916)	
4	736-0169		L-Wash. 3/8" Scr.*	
5	13473		Engine Belt Guard Mount Plate Ass'y.	N
6	736-0105		Bell. Wash.	
7	712-0113		Wing Nut ¼-20 Thd.	
8	12614		Battery Hold Down	
9	710-0599		Hex Self Tap Scr. ¼-20 x .50" Lg.	
10	13476	—463	Engine Support Ass'y.	N
11	710-0514		Hex Scr. 3/8-16 x 1.00" Lg.*	
12	736-0169		L-Wash. 3/8" Scr.*	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	736-0242		Bell. Wash.	
15	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
16	711-0634		Lift Handle Button	
17	732-0152		Compression Spring	
18	736-0173		Fl-Wash. ¼" I.D. x .75" O.D.	
19	747-0212		Locking Rod	
20	711-0471		Ferrule	
21	736-0140		Fl-Wash. 3/8" I.D. x 5/8" O.D.	
22	710-0667		Hex Scr. (Special)	
23	748-0252		Lift Shaft Pivot Pin	
24	714-0115		Cotter Pin	
25	13169		Deck Link—L.H.	
26	736-0179		Fl-Wash. ½" I.D. x 1¼" O.D.	
27	710-0504		Hex Scr. ½-20 x 1.25" Lg.*	
28	13168		Deck Link—R.H.	
29	750-0336		Push Bar Sleeve	
30	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
31	748-0252		Lift Shaft Pivot Pin	
32	714-0115		Cotter Pin	
33	13086		Lift Shaft Weldment Ass'y.	
34	13092		Push Bar Ass'y.	
35	734-0786		Rear Wheel Ass'y. Comp.	
	734-0785		Rim Only	
	734-0322		Tire Only 23.0 x 9.50	
36	736-0188		Fl-Wash. ¾" I.D.	
37	712-0288		Hex Ins. L-Nut ¾-16 Thd.	
38	712-0193		Cone Lug Nut 3/8-24 Thd.	
39	719-0231		Rear Wheel Hub	
40	732-0336		Deck Lift Assist Spring	
41	710-0617		Rd. Hd. Rib Neck Bolt 3/8-24 Thd.	
42	711-0365		Spring Insert	
43	13095		Index Brkt.	
44	712-0241		Hex Nut 3/8-24 Thd.*	
45	736-0169		L-Wash. 3/8" Scr.*	
46	736-0235		Fl-Wash. 3/8" I.D. x 1¼" O.D.	
47	736-0169		L-Wash. 3/8" Scr.*	
48	710-0514		Hex Scr. 3/8-16 x 1.00" Lg.*	
49	714-0146		#27 Woodruff Key	
50	710-0152		Hex Scr. 3/8-24 x 1.00" Lg.*	
51	736-0235		Fl-Wash. 3/8" I.D. x 1¼" O.D.	
52	710-0502		Hex Wash. Hd. Self Tap Scr. 3/8-16 x 1.25" Lg.	
53	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
54	732-0267		Hex Nut 5/16-18 Thd.*	
55	736-0119		L-Wash. 5/16" Scr.*	
56	711-0222		Battery Hold Down Rod	
57	13381		Battery Carrier Ass'y.	N
58	725-0530		Solenoid	
59	736-0119		L-Wash. 5/16" Scr.*	
60	712-0287		Hex Nut ¼-20 Thd.*	
61	736-0329		L-Wash. ¼" Scr.	
62	738-0215		Shoulder Scr.	
63	736-0232		Wave Wash.	
64	13146		Engine Belt Guard Ass'y.	
65	712-0267		Hex Nut 5/16-18 Thd.*	
66	13148		Engine Belt Guard Ass'y. (Trans.)	
67	747-0273		Belt Guard Scr.	N
68	13149		Engine Belt Guard Ass'y.	
69	712-0239		Hex Cent. L-Nut 5/16-24 Thd.	
70	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. Grade 5	
71	736-0217		L-Wash. 3/8" Scr. H.D.	
72	736-0235		Fl-Wash. 3/8" Dia.	
73	756-0280		Engine Pulley	
74	710-0694		Hex Scr. 7/16-14 x 1.50" Lg.	
75	711-0242		Spacer (910)	N
76	714-0118		Sq. Key ¼" x ¼" x 1.50" Lg.	
77	13380		Battery Carrier Support Brkt.	N
78	712-0798		Hex Nut 3/8-16 Thd.*	
79	737-0104		Pipe Plug (910)	
80	737-0159		Pipe Nipple (910)	
81	737-0158		Elbow (910)	
82	751-0190		Muffler (910)	
83	—		11 H.P. Engine (910)	
84	13493		Heat Shield Brkt. (910)	N
85	712-0287		Hex Nut ¼-20 Thd.* (910)	
86	736-0329		L-Wash. ¼" Scr.* (910)	
87	710-0258		Hex Scr. ¼-20 x .62" Lg.* (910)	
88	710-0456		Hex Drilling Scr. #10 x .50" Lg. (910)	
89	736-0217		L-Wash. 3/8" Scr. H.D. (910)	
90	712-0241		Hex Nut 3/8-24 Thd.* (910)	
92	710-0629		Hex Scr. 3/8-24 x 2.75" Lg. (910)	
93	736-0301		Spacer (910)	
94	13492		Heat Shield Cover (910)	N



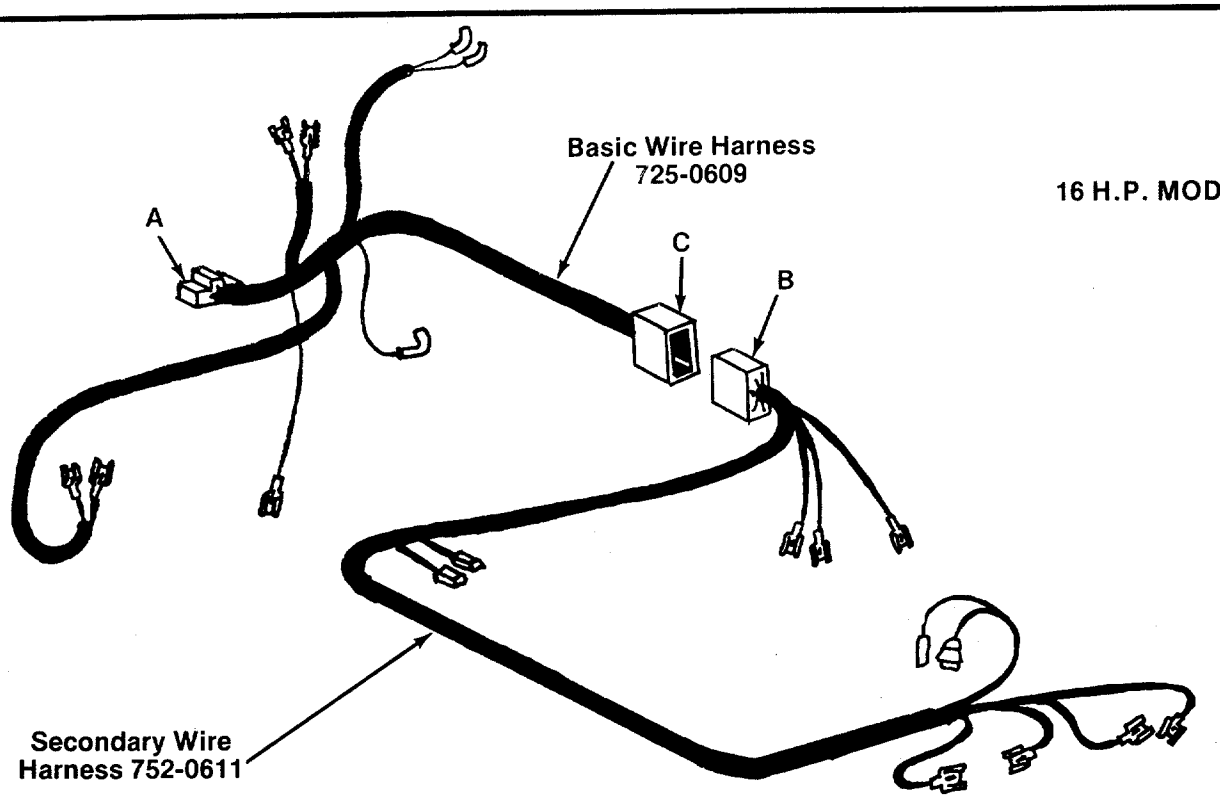
PARTS LIST FOR ELECTRICAL SYSTEM

REF. NO.	PART NO.	DESCRIPTION
1	725-0201	Ignition Key
2	725-0267	Ignition Switch
3	725-0119	Ammeter
4	725-0459	Circuit Breaker (8 Amp)
5	725-0453	Battery 12 Volt
6	725-0559	Electric Wire
7	725-0559	Electric Wire
8	725-0561	Electric Wire
9	725-0530	Solenoid
10	725-0577	Safety Switch—Black
11	725-0222	Head Lamp
12	725-0202	Light Switch

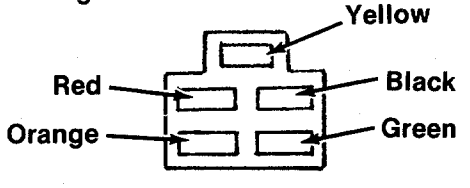
11 H.P. MODELS



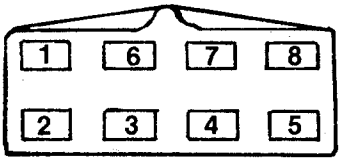
16 H.P. MODELS



Terminal Block for Ignition Switch "A"

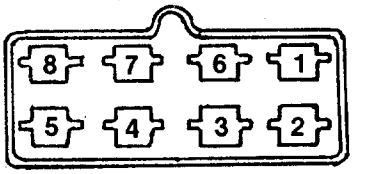


Terminal Block for Secondary Wire Harness "B"



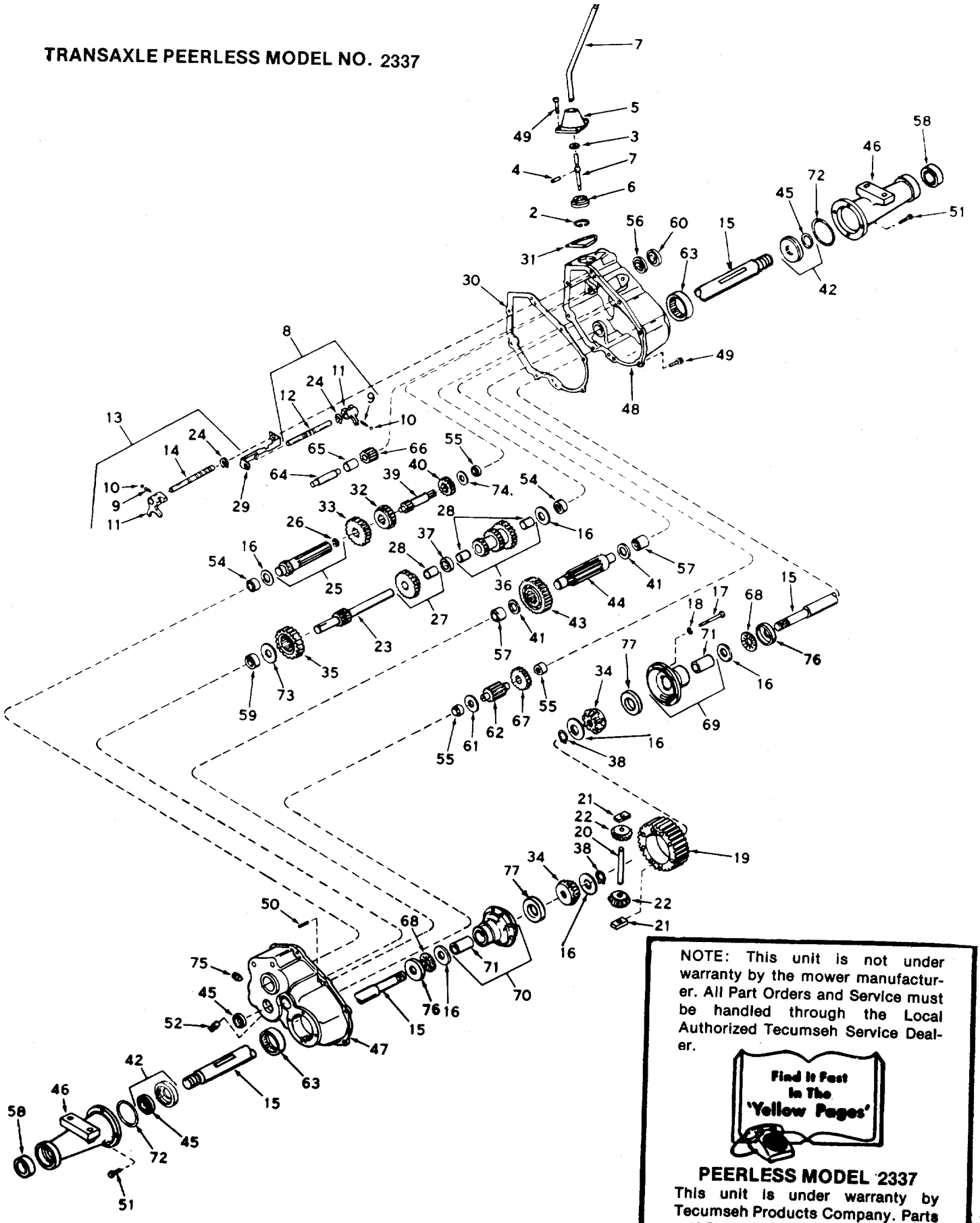
1 = Red
2 = Red
3 = Orange
4 = Green
5 = Blue
6 = Red
7 = White
8 = Yellow

Terminal Block for Basic Wire Harness "C"



1 = Red
2 = Red
3 = Orange
4 = Green
5 = Blue
6 = Red
7 = White
8 = Yellow

TRANSAXLE PEERLESS MODEL NO. 2337



NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

PEERLESS MODEL 2337

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

PARTS LIST FOR TRANSAXLE PEERLESS MODEL 2337

REF. NO.	PART NO.	DESCRIPTION
2	PE-792016	Ring, Snap
3	PE-792001	Ring, Quad
4	PE-792049	Pin, Roll
5	PE-784093	Housing, Shift Lever
6	PE-784094	Keeper, Shift Lever
7	PE-784292	Lever, Shift*
8	PE-784054	Rod Ass'y., Shift (Incl. Nos. 9 thru 12 and 24)
9	PE-792003	Spring
10	PE-792004	Ball, Steel
11	PE-784004	Fork, Shifter
12	PE-784055	Rod, Shifter (3rd and 4th)
13	PE-784056	Rod Ass'y., Shift (Incl. Nos. 9, 10, 11, 14 and 24)
14	PE-784057	Rod, Shifter (Low)
15	PE-774361	Axle
16	PE-780042	Washer, Thrust
17	PE-792005	Scr. Hex Hd. Cap ¼-20 x 2½
18	PE-792006	L-Wash. ¼"
19	PE-778033A	Gear, Ring
20	PE-786019	Pin, Drive
21	PE-786027	Block, Drive
22	PE-778094	Pinion, Bevel
23	PE-776029A	Shaft and Gear, Brake
24	PE-792017	Ring, Snap
25	PE-776026	Shaft and Brg. Ass'y., Pinion (Incl. No. 26)
26	PE-780018	Bearing, Needle
27	PE-778034	Gear Cluster Ass'y. (Incl. No. 28)
28	PE-780053	Bushing
29	PE-784074	Stop, Shifter
30	PE-788023	Gasket, Case and Cover
31	PE-788022	Gasket, Shifter Lever Housing
32	PE-778019	Gear, Shifting (3rd and 4th)
33	PE-778020	Gear, Shifting (1st, 2nd and Rev.)
34	PE-778095	Gear, Bevel
35	PE-778037	Gear, Idler
36	PE-778035	Gear Cluster Ass'y. (Incl. No. 28)
37	PE-786024	Spacer
38	PE-792018	Ring, Snap
39	PE-776175	Shaft, Input
40	PE-778024	Spur Gear, Input Shaft
41	PE-780052	Washer, Thrust
42	PE-788021	Seal and Retainer Ass'y., Oil (Incl. No. 45)
43	PE-778036	Gear, Output
44	PE-776028	Pinion, Output
45	PE-788008	Seal, Oil
46	PE-782025	Housing, Axle
47	PE-772016A	Cover Ass'y., Transaxle (Incl. Nos. 54, 55, 57, 59 and 63)
48	PE-770012	Case Ass'y., Transaxle (Incl. Nos. 54, 55, 57 and 63)
49	PE-792007	Scr., Socket Hd. Cap ¼-20 x ¾
50	PE-786026	Pin, Dowel
51	PE-792037	Scr., Hex Hd. Sems, 5/16-18 x 1
52	PE-792019	Plug, Magnetic Drain
54	PE-780049	Bearing, Needle
55	PE-530105	Bearing, Needle
56	PE-780024	Bearing, Ball
57	PE-780047	Bearing, Needle
58	PE-780050	Bearing, Ball
59	PE-780046	Bearing, Needle
60	PE-788025	Seal, Oil
61	PE-780001	Washer
62	PE-776031	Shaft and Pinion
64	PE-780048	Bearing, Needle
64	PE-776030	Shaft, Reverse Idler
65	PE-786025	Spacer, Reverse Idler
66	PE-778016	Idler, Reverse
67	PE-778038	Spur Gear (22 teeth)
68	PE-780039	Bearing, Thrust
69	PE-774072A	Carrier Ass'y., Differential (Incl. No. 71)
70	PE-774071A	Carrier Ass'y., Differential (Incl. No. 71)
71	PE-780041	Bushing
72	PE-788024	"O" Ring
73	PE-780007	Washer, Thrust
74	PE-780051	Washer, Thrust
75	PE-792010	Plug, Pipe
76	PE-780075	Race, Thrust
77	PE-780107	Washer

*Shift lever is not shipped with transaxle. Order separate.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts number, description of parts and the quantity of each part required.

ALABAMA	**BIRMINGHAM**		
Auto Electric & Carburetor Co.		2625 4th Ave. S.	35233
ARKANSAS	**NORTH LITTLE ROCK**		
Sutton's Lawn Mower Shop		Rt. 4, Box 368	72117
	FORT SMITH		
Mity Mite Motors, Inc.		2515 Towson Ave.	72901
CALIFORNIA	**PORTERVILLE**		
Billious		75 North D Street	93257
	SAN BERNARDINO		
Lawn Mower Supply Co.		25608 E. Baseline	92410
	SAN FRANCISCO		
J.W. Jewett Co.		981 Folsom St.	94107
	SACRAMENTO		
Luttig & Severson		2030 28th St.	95818
COLORADO	**DENVER**		
South Denver Lawn Equip.		527 West Evans	80223
FLORIDA	**JACKSONVILLE**		
Radco Distributors		2403 Market St.	32206
	CORAL GABLES		
Moz-All of Florida, Inc.		365 Greco Ave.	33146
GEORGIA	**EAST POINT**		
East Point Cycle & Key		2834 Church St.	30344
ILLINOIS	**LYONS**		
Keen Edge Co.		8615 Ogden Ave.	60534
INDIANA	**ELKHART**		
Parts & Sales Inc.		2101 Industrial Pkwy.	46514
IOWA	**DUBUQUE**		
Power Lawn & Garden Equip.		2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**		
Suhren Engine Co.		8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**		
Center Supply Co.		6867 New Hampshire Ave.	20012
MASSACHUSETTS	**SPRINGFIELD**		
Morton B. Collins Co.		300 Birnie Ave.	01107
MICHIGAN	**MOUNT CLEMENS**		
Power Equipment Dist.		36463 South Gratiot	48043
	LANSING		
Lorenz Service Co.		2500 S. Pennsylvania	48900
MINNESOTA	**MINNETONKA**		
Hance Distributing Inc.		11212 Wayzata Blvd.	55343
MISSISSIPPI	**BILOXI**		
Biloxi Sales & Service, Inc.		506 Caillavet St.	39533
MISSOURI	**KANSAS CITY**		
Automotive Equip. Service		3117 Holmes St.	64109
	ST. LOUIS		
Henzler, Inc.		2015 Lemay Ferry Rd.	63125
NEW JERSEY	**BELLMAWR**		
Lawnmower Parts Inc.		717 Creek Rd., P.O. Box 7	08030
NEW YORK	**CARTHAGE**		
Gamble Dist., Inc.		West End Ave.	13619

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NORTH CAROLINA	**GREENSBORO**		
Dixie Sales Company		327 Battleground Ave.	27402
	GOLDSBORO		
Smith Hardware Co.		515 N. George St.	27530
OHIO	**WADSWORTH**		
National Central		687 Seville Rd.	44281
	CLEVELAND		
Bleckrie, Inc.		7900 Lorain Ave.	44102
	CARROLL		
Stebe's Mid-State Mower Supply		Box 366	43112
	WILLARD		
Sunshine Wholesale Tire Outlet		Route 224	44890
OKLAHOMA	**MUSKOGEE**		
Victory Motors, Inc.		605 S. Cherokee	74401
	ADA		
Ada Auto Supply		301 E. 12th St.	74820
OREGON	**PORTLAND**		
Kento, Supply Co.		8216 N. Denver Ave.	97217
PENNSYLVANIA	**HARRISBURG**		
Eeco Inc.		4021 N. 6th St.	17110
	PHILADELPHIA		
Thompson Rubber Co.		5222-24 N Fifth St.	19120
	PITTSBURGH		
Bluemont Co.		11125 Frankstown Rd.	15235
TENNESSEE	**KNOXVILLE**		
Master Repair Service		2423 Broadway, N.E.	37917
	MEMPHIS		
Memphis Cycle & Supply Co.		421 Monroe Ave.	38103
American Sales & Service, Inc.		1922 Lynnbrook	38116
TEXAS	**DALLAS**		
Marr Brothers, Inc.		423 E. Jefferson	75203
	HOUSTON		
Bullard Supply Co.		2409 Commerce St.	77003
	SAN ANTONIO		
Catto & Putty, Inc.		P.O. Box 2408	78206
	FORT WORTH		
Woodson Sales Corp.		1702 N. Sylvania	76111
UTAH	**SALT LAKE CITY**		
A-1 Engine & Mower Co.		437 E. 9th St.	84111
VERMONT	**BURLINGTON**		
Vermont Appliance Co.		44 Lakeside Ave.	05401
VIRGINIA	**RICHMOND**		
RBI Corp.		963 Myers St.	23260
WASHINGTON	**SEATTLE**		
Bailey's Rebuild, Inc.		1325 E. Madison St.	98102
WEST VIRGINIA	**CHARLESTON**		
Young's, Inc.		233 Virginia St., E.	25301
WISCONSIN	**APPLETON**		
Automotive Supply Co.		123 S. Linwood Ave.	54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**